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1972 - 73 CALENDAR





Douglas College

P.O. Box 2503, New Westminster, British Columbia, Canada

DOUGLAS COLLEGE CALENDAR

NOTE

Pages 21 and 22 are reversed. The course offerings on ART begin on Page 20, continue on Page 22, following to Page 21.

CALENDAR OF EVENTS 1972/73

Registration	Wednesday-Thursday-Friday	30-31 August, 1 September, 72
Classes Begin	Tuesday	5 September, 1972
Last Day to Add a Class	Friday	15 September, 1972
Thanksgiving Holiday	Monday	9 October, 1972
Mid-Semester Reports	Friday	27 October, 1972
Last Day to Drop a Class	Thursday	9 November, 1972
Remembrance Holiday	Friday	10 November, 1972
Examinations	Monday-Tuesday-Wednesday	18-19-20 December, 1972
Last Day of Classes	Wednesday	20 December, 1972

Christmas Holidays	Monday-Tuesday	25-26 December, 1972
New Year's Holiday	Monday	1 January, 1973

Registration	Saturday-Monday-Tuesday	13-15-16 January, 1973
Classes Begin	Wednesday	17 January, 1973
Last Day to Add a Class	Friday	26 January, 1973
Mid-Semester Reports	Friday	9 March, 1973
Last Day to Drop a Class	Friday	23 March, 1973
Easter Holidays	Friday-Sunday	20-23 April, 1973
Examinations	Monday-Tuesday-Wednesday	30 April, 1-2 May, 1973
Last Day of Classes	Wednesday	2 May, 1973

Admission and Registration

Academic Qualifications

You are eligible for admission if:

- You have complete B.C. secondary school graduation on any programme, or the equivalent from another school system;
- You are deficient in not more than one course for B.C. secondary school graduation, or the equivalent from another school system;
- You are 19 years of age or older on the first day of the current semester and have not been in regular daytime attendance at school for at least one year.

If you do not meet one of the above requirements, you are eligible to apply for admission as a "special" student. Applications for admission as a "special" student will be reviewed by the Admissions and Appeals Committee.

Residence Requirements

Douglas College is operated primarily for qualified residents of the eight school districts (Burnaby, New Westminster, Coquitlam, Langley, Delta, Surrey, Maple Ridge, and Richmond) which compose the College Region. If you live outside the College Region, you may be admitted on a "space available" basis at a higher tuition fee. In cases where career programmes are not offered at other community colleges, the higher tuition fee is not charged.

You qualify as a resident if:

- You are under 19 years of age, reside inside or outside the College Region on the first day of the current semester, and your parents or legal guardians have been municipal taxpayers within the College Region for at least three months;
- You are 19 years of age or over on the first day of the current semester, are a municipal taxpayer in the College Region, or have been a resident of the College Region for at least three months prior to the current semester.

If your resident status is in question, you may be required to provide documentary or other proof to obtain admission.

Mature Student Admission

Douglas College has a commitment to the adult student — full-time or part-time. If you are 19 years of age or older on the first day of the current semester, have been out of school for at least one year, and have not completed B.C. secondary school graduation (or its equivalent from another school system), you may still qualify for admission to Douglas College. Experience and training related to the courses you wish to take will be evaluated in assessing your application. The College will endeavor to provide courses appropriate to your interests, background, and goals. Depending on your education and experience, you may be advised to take courses offered by an adult education division in our constituent school districts before being admitted.

Students from Other Countries

If you are a student from another country and have landed immigrant status, you are eligible for admission to Douglas College. (You are considered a landed immigrant if you have obtained a Canadian Immigration Identification Card No. IMM 1000). Landed immigrants must also meet the College's residency requirements stated above.

Since the language of instruction is English, those not proficient in English may be ineligible for admission to certain courses. If you are not proficient in English, both written and oral, you should consult the Student Development Centre.

Transfer Credit

If you have previously attended a recognized post-secondary institution, or if you have undertaken special training in a career area, you may be eligible to receive some advanced credit toward a Douglas College diploma or certificate. Advanced credit implies a reduction in the number of semester hours of credit you must earn to qualify for a certificate or diploma.

You may transfer up to a maximum of 30 semester hours of credit toward a 60-semester-hour Douglas College diploma, or up to 50 per cent of the number of semester hours required for a Douglas certificate. Transfer credit will not normally be granted for a course in which you receive a final mark lower than 55 per cent (or a grade of P or D, whichever is the equivalent of a final mark lower than 55 per cent). Transfer credits granted will be indicated in your letter of acceptance and recorded on your permanent record.

If you have taken grade 13 work in a B.C. secondary school or its equivalent by day, evening, or correspondence, you will be granted credit on a course-by-course basis for all courses completed — regardless of the proportion of courses passed or failed (subject to the above conditions with respect to the number that can be transferred).

Douglas College cannot accept responsibility for the transferability of courses not completed at the College. If you have been granted transfer credit at Douglas and plan to transfer to a particular university, you should consult with that university's admissions staff.

If you have previously registered at a university and wish to attend Douglas on a university-transfer programme, you should consult with the university registrar's office regarding transfer of credit upon return to that university.

Challenge Credit

As a Douglas student, you may obtain credit by challenging a course. This means undertaking written or oral examinations, or both, and other types of evaluation on the content of a specific course. In examining a student who has challenged a course, more than one faculty member will be involved at the department level — either the chairman (or his delegate) and another faculty member who is teaching the particular course. Examinations may be in the form of written work, a tape recording, a video tape record, or a movie film. The examination results will be filed by the department for permanent reference.

To challenge a course, you must make a formal application on the official Petition Form (obtainable from the Student Development Centre on each campus or from the Admissions Office) and return it to the Director of Admissions.

Your application will be referred to the department chairman, who will determine your eligibility. If your application is disallowed, it is returned to you with an appropriate explanation. If your application is allowed, you must pay a fee of \$10 to the Admissions Office. The examination and evaluation procedures will be set by the chairman (or his delegate) and a faculty member or members teaching the subject. They will be responsible for the final assessment after you have completed the testing procedure.

If you do not obtain a mark of C or above, this will be noted and the Director of Admissions informed. The failure will *not* be entered on your College transcript.

If you obtain a mark of C or above, the Director of Admissions will be notified and the mark and credits will be entered on your College transcript. If you are registered in a university-transfer programme, you are advised to check with the university to which you will transfer regarding the acceptability of "challenge credit" for transfer purposes.

To obtain permission to challenge, you must indicate how you have acquired the knowledge and skills required by the course you intend to challenge. You must be registered as a full-time or part-time student for the semester in which the challenge application is made.

You may challenge a maximum of three semester hours credit in any one semester, with a maximum of 12 semester hours of credit being allowed by challenge for any two-year diploma programme, or a maximum of six semester hours for any one-year certificate programme. In some career programmes, the maximum of 12 semester hours may be challenged in one semester.

Application for permission to challenge must be made within the first eight weeks of classes in any semester.

Advanced Placement

Douglas College recognizes that many of its students should be granted formal recognition for knowledge and skills previously acquired. Advanced placement involves permission for you to omit introductory or prerequisite courses on a given programme, but it presumes that you will still have to complete the required total number of semester hours credit for a certificate or diploma. You will, however, increase your total number of optional credit hours of instruction.

The decision to grant advanced placement rests primarily with the teaching department. Application may be made directly to the department chairman, or to the Director of Admissions who will refer it to the department concerned. The chairman and one appropriate faculty member from his department will evaluate each applicant's previous knowledge and skills, and then notify the Director of Admissions if a recommendation for advanced placement can be made. Your application must be submitted on the authorized Petition Form.

Interviews

In some cases, interviews may be required as part of the admission process, particularly in career programmes. An audition is required for admission to the music programmes.

Enrollment Limitation

The College may be obliged to limit enrollment in certain programmes or courses, and may cancel or revise any of those listed. Courses listed in the course description section of this Calendar are the complete offerings. Not all are available in every semester.

Medical Examination

A medical examination is not required for admission. However, if you have a medical condition which you feel the College should know about, please provide this information to the Admissions Office.

APPLICATION FOR ADMISSION

Before applying, you are encouraged to study the Douglas College Calendar and then consult with admissions and counselling staff, who will be pleased to discuss the College programmes with you and provide assistance in planning for and selecting courses appropriate to your individual interests and goals. Counsellors are available on the three campuses; feel free to contact them.

New Westminster campus521-4851

Surrey campus588-4411

Richmond campus 273-5461

Admissions staff will be visiting secondary schools in the College Region just before each semester begins, to provide information about the College and to answer questions.

How to Apply

- a) Complete the Application for Admission form, which is available at any one of the three campuses and at senior secondary schools in the College Region. Return the completed form to: Director of Admissions, Douglas College, P.O. Box 2503, New Westminster, B.C.

PLEASE NOTE: Your application cannot be processed unless *ALL* questions on the form are answered.

- b) Your application should be accompanied by *official* transcripts from secondary schools and any institutions of higher education you have attended. All transcripts and other documents filed in support of your application become the property of the College and will not be returned. Original documents which are irreplaceable should not be sent. Certified copies of the original will be accepted. Confirmation of admission status cannot be given until all documents have been submitted.

When to Apply

You may commence studies at the beginning of any semester. You should apply for admission well in advance of the registration date for the semester in which you will enter the College. (See Calendar for registration dates.)

Acceptance of Application

Official notification of acceptance will be issued by the Director of Admission *by mail only*.

Douglas College's primary responsibility is that of serving the educational needs of students who reside within the College Region. If you live within this region you will be given first priority for acceptance. However, because of the large number received, applications must be submitted by June 30. After June 30, qualified applicants will be accepted on a first-come, first-served basis regardless of place of residence.

REGISTRATION REQUIREMENTS

To register, you must have submitted an Application for Admission form and have received a Certificate of Eligibility to Register from the Admissions Office. Your copy of the latter form must be presented for admission to the Registration Hall. You cannot be admitted without the form, nor at any times other than those specified.

New Students

When your application is accepted, you will receive *by mail* a Notice of Eligibility to Register for a specific programme. If, on receipt of such notice, you wish to change your programme of studies, you must obtain a revised notice of eligibility from the Admissions Office before registering.

Returning Students

If you satisfactorily complete a semester at Douglas, you will receive another notice of eligibility from the Admissions Office before you re-register. Should you not receive this, please contact the Admissions Office prior to registration. Students who do not satisfactorily complete a semester at Douglas may be placed on academic probation or may be asked to withdraw.

Course Selection

You may use the course selection portion of your Certificate of Eligibility to Register to make a preliminary choice of courses. The Calendar should aid you in your selection before you actually register. Department chairmen, programme coordinators, and counsellors will also be available before registration to help you confirm your course selection. Thus, you should be able to register with a minimum of difficulty. Should you encounter difficulty in the Registration Hall, however, these personnel will be on hand to assist you.



Douglas College

P.O. Box 2503, New Westminster, British Columbia

AN OPEN LETTER OF INTRODUCTION

As Douglas College enters its third year of operation, we look back on our first two years with pride and satisfaction.

In this short time, the College has rapidly progressed from an exciting idea to a stimulating reality; in the process, it has won considerable recognition for its course offerings and community involvement.

However, if we are to extend this successful beginning into the future, we must pay particular attention to a number of areas in the coming years. These are:

- the establishment of meaningful techniques for evaluating and, where necessary, modifying our present courses and programs to suit the needs of the student
- the continued development of new courses and programs in areas where true needs exist
- the identification and acquisition of permanent sites for the College as well as the design of the physical facilities
- continued development of the two Douglas College Institutes with particular emphasis on cooperative programming, and joint studies on facility development with recognized agencies in the College region
- the increased involvement of students in the Student Government and on the official committees of the College.

A need for accurate and more detailed information concerning student needs and aspirations is obvious. To this end, colleges and universities are now becoming actively engaged in surveying students on entering and leaving post-secondary institutions in general, and colleges in particular. Since the results of these studies will be used in the planning of both curriculum and physical plant, we especially look for your cooperation.

Douglas is classified as a two-year college, and as a result, many students feel they must complete their program of study in two years or be branded a failure or low performer.

This is not so.

In reality, two years is but the minimum time required to complete the Diploma programs, with a one-year minimum for the Certificate. Many students are now electing to continue through five or six semesters and either take a wider program than they would otherwise have been able to manage, or carry a lighter course load and become involved in other student activities such as Student Government or the newspaper. This I commend as an important part of a college education.

Sincerely,

George C. Wootton
Principal

Registration

Registration will take place on the dates and at the times indicated on your Certificate of Eligibility to Register. You must complete your registration in person. Part-time students may register at special registration times, as announced at the beginning of each semester.

The College staff will assist in every possible way to ensure that you are registered for courses in which you are interested. If you plan to transfer to another institution after attendance at Douglas, the admissions and counselling staff will assist in planning for such transfers.

Please note: Ultimate responsibility for the accuracy and completion of your timetable of courses and registration rests with you. You cannot receive credit for a course in which you are not properly registered.

New students are required to view an orientation film and are requested to participate in a testing programme as part of the registration process.

Late Registration

You may register late for courses, on a space-available basis, up to two weeks after classes have started. A late registration fee of \$10 will be charged.

Course Changes — During First 14 Days

If you wish to withdraw from or add a course, or change a section, you must apply to the Admissions Office or Student Development Centre within two weeks after classes have commenced for each semester. Courses dropped with approval will not appear on your official transcript. You are required, however, to complete a "Notice of Change" form for any change you make.

Course Withdrawal — After 14 Days

If you wish to withdraw from a course after 14 days from the beginning of instruction and before 14 days after the midterm date, you should apply to the Admissions Office or Student Development Centre to complete a Notice of Change form. Any courses dropped will appear on your official transcript with a W grading.

Withdrawal from College

If, after registering, you decide to withdraw, you must fill out a Complete Withdrawal Notice obtainable from the Student Development Centre or the Admissions Office). Fees will be refunded only if you follow official withdrawal procedures.

Change of Address

Please notify the Admissions Office of any change of address so that correspondence and grades may be mailed to you without delay. Changes in telephone numbers and names of persons to contact in emergencies, etc. should also be submitted.

FEE SCHEDULE

Unless otherwise authorized, fees are payable in full upon registration. If your fees will be paid by an agency (other than government scholarships), a letter to this effect is required upon registration.

Students Residing Within Douglas College Region

Full-time students (taking 12 or more semester hours of credit) each semester	\$100
Part-time students (taking fewer than 12 semester hours of credit); cost for each semester hour of credit	\$ 9
Senior citizens (taking fewer than 12 semester hours of credit); cost for each semester hour of credit	\$ 3
Student Association fee (full-time students) each semester	\$ 5
Student Association fee (part-time students) each semester	\$ 3

Students Residing Outside Douglas College Region

Full-time students (taking 12 or more semester hours of credit) each semester	\$200
Part-time students (taking fewer than 12 semester hours of credit); cost for each semester hour of credit	\$ 9
Senior citizens (taking fewer than 12 semester hours of credit); cost for each semester hour of credit	\$ 3
Student Association fee (full-time students) each semester	\$ 5
Student Association fee (part-time students) each semester	\$ 3

Student Association Fees

Proceeds of these fees are used by the association to provide activities for students, both full-time and part-time. These activities are decided by the students; the fees, which are set by the association representatives and approved by the College Council, are considered part of the registration fees.

Other Fees

Challenge fee	\$ 10
Late registration fee — all students	\$ 10
Equipment fees: In certain courses you may be required to pay equipment fees and will be so advised at registration.	

Tuition Fee Refunds

Refunds are calculated from the day on which the withdrawal form is submitted to the Admissions Office. Tuition fee refunds will be based on the number of semester hours of credit from which you withdraw.

Student Association and late registration fees will not be refunded.

Scale of Refunds for Complete Withdrawal

- Withdrawal within 14 days of the beginning of instruction — 80 per cent of tuition fee;
- Withdrawal between the 15th and 30th days from the beginning of instruction — 50 per cent of tuition fee;
- Withdrawal after the 30th day from the beginning of instruction — no refund.

Scale of Refunds for Course Reduction

If you reduce the number of credit hours you are taking within 14 days of the beginning of instruction, you may receive full refund of the difference between the adjusted tuition fees and tuition fees paid at registration. No refund will be made for course reduction after 14 days.

ACADEMIC REGULATIONS

DEFINITIONS

Semester Hours of Credit

The standard unit of credit represents a minimum of one hour per week per term of class instruction, and is called a "semester hour." Most college-level courses carry three semester hours of credit, although they may require more than three hours of classroom and laboratory work, seminars, etc.

Certain courses have variable credit, i.e. you may register for a particular course and commit yourself to any one of the credit values assigned to it. In selecting the number of credits for which you will register, you should consult with the instructor to determine the amount of work required for each credit value. You must also obtain the instructor's written approval on your registration form.

Full-time Students

If you register for 12 or more semester hours of credit, you will be considered a full-time student and will be charged a maximum of \$100 per semester in tuition fees (students residing within the College region only).

Part-time Students

If you register for fewer than 12 semester hours of credit in one semester, you will be considered a part-time student and will be charged at the rate of \$9 per semester hour of credit (\$3 per semester hour for senior citizens).

College Diplomas

When you complete the requirements of a two-year (four-semester) programme, you will receive a Douglas College diploma.

College Certificates

When you complete a special programme of less than two years' duration, you will receive a Douglas College certificate.

COLLEGE TRANSCRIPTS

You will receive, upon written request, an unofficial transcript of marks obtained in your courses. Since student records are confidential, an official transcript will be issued to other agencies or officials only upon your written request. If you have not made satisfactory arrangements with the Bursar's Office to meet any outstanding debt to the College, no transcript will be issued.

Application for a transcript should be made at least one week before it is required.

Transcript Fees

Three copies are free. A \$1 charge is made for each additional copy.

Faculty Responsibility

Faculty members are available for consultation, either during posted office hours or by arrangement. They will help in every way possible to make your educational experience at Douglas a successful one.

Student Responsibility

It is your responsibility to attend classes regularly, to keep your work up-to-date, and to complete assignments as required. Your final grades are based largely on your completed assignments, tests, and class participation. It is expected that students will conduct themselves as responsible citizens.

Statement of Grades

You will receive an official statement of grades at the end of each semester. A form will be provided for you to obtain a midterm assessment from your instructors approximately eight or nine weeks after the beginning of each semester.

Please note: All obligations relating to fees, library books, rentals, or borrowed equipment must be met before any statement of grades, transcripts, or diplomas will be released.

Errors and omissions on the statement of grades (or transcript) should be reported immediately to the Admissions Office.

Scholastic Probation

When you register, you are making a commitment to complete your programme of courses in that particular semester. Since there will be a considerable demand for admission, you must complete most of your course commitments to retain your eligibility to re-register.

Probationary Students

Those who fail three or more of five courses must:

- Participate in a programme not exceeding five hours per week; and
- Are limited to enrollment in 12 semester hours of credit.

Faculty will do everything possible to assist with your studies so that you can meet your course commitments. If you do not complete at least 60 per cent of your course commitments in any semester, you may be placed on Scholastic Probation.

To have your name removed from the Scholastic Probation list, you must complete at least 60 per cent of your course commitments during your probation semester. If you do not, you may be considered ineligible to re-register unless you change your programme to one in which you have more opportunity for success.

If ineligible to re-register, you may re-apply for admission after missing one semester. Application for re-admission requires a personal interview with the admissions staff and (or) a counsellor.

Student Identification Cards

Loss of your student identification card should be reported to the Admissions Office. Replacement cost is \$2. If you withdraw from the College, it must be returned to the Admissions Office with your withdrawal notice.

Graduation Requirements

To meet graduation requirements, you must complete the required course work for a particular College diploma or certificate programme, including electives.

Required course work for most university transfer programmes and the general studies programme includes 60 semester hours of credit. You may select courses from any of the broad areas of the humanities, social sciences, natural sciences, English, and communications. Graduation requirements for particular career programmes and the music programme are contained in each of the career programme descriptions.

Course Load

A normal course load for a full-time student is 15 semester hours of credit. Some programmes may require more than a normal course load. If you are not enrolled in such a programme and wish to take more than 15 semester hours of credit in one semester, you must first obtain permission of the Director of Admissions. Normally, a B average will be required before permission to carry extra courses is granted.

Auditing or Visiting Other Classes

As a registered student, you may wish to audit additional courses. These should be added to your registration form. If you are not registered but wish to audit a course, you must apply and register in the normal manner. All fees except student fees are charged.

Students may visit other classes from time to time by obtaining permission of the instructor concerned.

Grading System

The following grading system will apply when evaluating your course work:

GRADE GRADE POINTS

A	4	Consistently exceptional work.
B	3	Consistently good work.
C	2	Consistently average work.
N	1	No credit. The student did not meet the requirements of the course.
P	0	Pass. The course requirements have been successfully completed. This grade does not permit student to pursue another course for which the graded course was a prerequisite.
W	Not Calculated	Withdrawn. The student withdrew from the course by submitting an official withdrawal form before the specified deadline.
I	Not Calculated	Incomplete. The course requirements have not as yet been completed. Written arrangements have been made with the instructor to complete the requirements which may include an examination, assignment, term paper, or an undemonstrated skill. The 'I' will be converted by the instructor to another grade by the end of the stated time period (maximum time is one semester).

"I" Grade Information

The "I" grade is a procedure to assist a responsible student to carry out his commitments and is not intended to encourage a student to procrastinate. It is reasonable, therefore, to expect that it will not be used frequently. Withdrawal procedure may well be far more realistic for many students. Guidelines used are:

- Any "I" mark is subject to review by the department chairman, whose signature is required on the contract. Student applications for "I" grades should be received no later than the deadline for application for withdrawal from a course.
- The following criteria are used by instructors in deciding whether to agree to a contract:
 - Previous work in the course should have been at a reasonably satisfactory level;
 - Student has been prevented from completing requirements by some abnormal circumstance or juxtaposition of other responsibilities, such as embarking on a project whose completion turns out to be more time-consuming than originally conceived;
 - An emergency situation such as illness or accident has prevented student from completing one or more of the course requirements.
- A student receiving an "I" grade will be allowed to re-register in the subsequent semester only after an examination of his course load and his "I" contract by a counselling and (or) admissions team at registration. Thus student must bring his "I" contract to registration along with his statement of marks.
- It is expected that most students will complete their "I" contracts within two to four weeks after they are made.
- There is no limit to the number of "I" grades a student may carry.

Grade Point Average

Grade Point Averages (G.P.A.) will be reported on all transcripts of marks. The "Term G.P.A." is the sum of the grade points earned in a semester divided by the number of credits taken in that semester. The "Cum G.P.A." is the sum of the grade points earned in all semesters of attendance divided by the total number of credits taken in all semesters.

Appeals and Petitions

It is anticipated that some students will have reason to request changes in academic regulations or programme requirements affecting them, also that a student may wish to appeal a decision which affects him personally.

Formal appeals must be made on the Petition Form which is available at the Admissions Office and Student Development Centres. You will be given the opportunity to appear before the committee, which will review your appeal; and to present or defend your case.

Should you wish to appeal a decision, the following steps should be taken:

- Discuss your appeal with the instructor, faculty member, department chairman, director, etc. concerned. If appeal is granted, it ends there;
- If your informal appeal is not granted, you may submit a formal appeal on the Petition Form to the Admissions and Appeals Committee through the Admissions Office. If formal appeal is denied, it ends there;
- In cases involving a change of grade, the appeal may be referred to a faculty committee which will re-evaluate the appellant's work. This committee will consist of three faculty members — one chosen by the faculty member concerned; one by the department chairman or his designate; and one by the student. Specific guidelines are laid down for this committee by the Admissions and Appeals Committee. The committee's decision is referred to the Admissions and Appeals Committee for ratification. You will be informed immediately of the final decision.

Specific guidelines are laid down for this committee by the Admissions and Appeals Committee. The committee's decision is referred to the Admissions and Appeals Committee for ratification. You will be informed immediately of the final decision.

Petitions and appeals will be heard by a standing committee of the College, consisting of the Director of Admissions (chairman), Dean of Curriculum and Instruction, one elected faculty representative, and one student representative appointed by the Student Government. In addition, a counsellor sits on the committee as a non-voting member. In adjudicating a petition and appeal involving a faculty member, that member and his chairman are requested to attend the meeting.

SERVICES FOR STUDENTS

Douglas College offers a varied selection of educational programmes. If you are to choose your courses wisely, the College believes you should be assisted in identifying your interests and aptitudes and assessing your strengths and weaknesses. The College believes that you can develop personal initiative and responsibility for planning your future only when you have acquired adequate knowledge about yourself and your goals. Therefore, a wide range of student services is provided to help you to achieve maximum benefit from your college experience. These include:

Faculty Tutorials

All faculty have been assigned office time to meet with students on an individual or small group basis. Please consult with faculty members regarding these tutorials.

Career Information

Each career programme offers electives of a general or vocational nature so that you may direct your education toward one of several areas of employment. Transfer programmes inherently contain a wide selection of subject areas as well as courses. A significant characteristic of a college education is that one may sample various fields, thus helping to direct the student toward a specific career. Work experience after graduation will be of equal assistance.

Douglas College services will assist you in your choice of a career, but no service will provide an easy or final answer. The library offers extensive book and other material to help you learn about various occupations. Faculty members also offer valuable advice in the area of their experience, and special tests are available through counsellors. Seminars and career meetings are held periodically, and representatives of Canada Manpower are available on and off campus to provide career information.

Student Placement

Every effort is made to enhance the employability of career programme graduates. For example, a careful survey of the job market in the Greater Vancouver area was made before deciding to offer each programme; thus, programmes selected will provide graduates with knowledge and skills which are both relevant and in demand in business and industry.

The College expects to have part-time openings on all campuses and in various departments and sections which could suit some students' timetables. Full-time students will be given priority in filling such positions. These opportunities will be advertised on the campuses.

A Student Placement Office has been established in conjunction with Canada Manpower, through which trained counsellors will help in career counselling and in finding suitable employment opportunities for both graduates and undergraduates.

Student Society and Activities

Each of the three campuses elects students to a Campus Council. The purpose of such decentralized government is to meet the particular needs and interests of students. Representatives from each of these councils meet regularly with other elected officers as the Douglas College Student Council so that interests of the student body as a whole may be considered.

A Student Society constitution has been submitted to Victoria for approval. This will provide the structure within which the Student Council will strive to meet the needs and interests of students in all their college activities. In the interim, committees have been established to meet such needs relating to athletics, club activities, communications, and social activities. Faculty members assist by taking part in student activities as requested. Provision has also been made for student participation on the various administrative committees.

STUDENT DEVELOPMENT SERVICES

Counselling and Study Centre.

On each campus there is a Student Development Centre where various kinds of assistance are available:

- 1) COUNSELLING
 - vocational
 - educational
 - personal
 - referrals to other agencies
- 2) CAREER INFORMATION
 - reference library on occupations
 - university and college calendars
 - technical and vocational schools
- 3) TESTS
 - available in the following areas and administered to assist in counselling:
 - aptitude
 - achievement
 - reading
 - personality
 - vocational interest inventories
- 4) READING DEVELOPMENT
 - eight-week courses on reading skills designed to improve both speed and comprehension
 - eight-week study skill courses
 - tutorial assistance
- 5) STUDY CENTRE
 - assistance to improve specific skills such as term papers, studying for exams, mathematics
- 6) MINI COURSES
 - assist in personality development, social problems, e.g. courses in marriage styles, counsellor aide training
 - courses initiated at student request
- 7) GROUP EXPERIENCES
 - personal development and growth groups for students wishing to acquire more insight into their behavior to improve inter-personal skills

The counsellors welcome the opportunity to meet with students either on a scheduled or drop-in basis. Evening interviews by appointment.

Drop in or Telephone:

NEW WESTMINSTER	521-4851 (local 43)
RICHMOND	273-5461 (local 8)
SURREY	588-4411 (local 56)

COLLEGE LOCATIONS

Complete educational centres are available to students in New Westminster, Surrey, and Richmond. These provide classroom space, library, cafeteria, administrative, and counselling services. The Continuing Education Division provides courses at various other locations. The College mailing address is Box 2503, New Westminster. The campus addresses are:

NEW WESTMINSTER: 8th Ave. & McBride Blvd., Telephone 588-4851
 SURREY: 9260—140th Street, Telephone 588-4411
 RICHMOND: 746 Elmbridge Way, Telephone 273-5461

While many courses are given at all three main campuses, several career programmes can be given at only one campus because of the special facilities that are required.

Campus Choice

Normally, upon registration, you will be able to choose courses offered at the campus nearest your place of residence. To make maximum use of College facilities, however, some students may be required to attend a campus more distant from their home. It is anticipated that some students will also find it more convenient to attend a campus other than that in their immediate locality. Every effort will be made to satisfy individual preference, but availability of space at a given campus cannot be guaranteed.

If you plan to move close to one of the campuses to take a particular programme, you should first contact the Admissions Office for the latest information on programme location.

Library

Full library service is provided at each campus. As a student at any campus, you may use the library at all three. Since it may sometimes be difficult for you to travel to another campus to obtain a particular item, an interloan service is provided. This means that you may ask for a book at Richmond, for example, and have it delivered from New Westminster. In addition, an interloan scheme between Douglas College and SFU is in operation, through which you may obtain copies of periodical articles from that university.

The College library has more than 40,000 books and 1,100 magazines, plus pamphlets, maps, records, slides, motion pictures, etc. All materials (except magazines) are available at any campus. Magazines are not available on interloan between campuses, but a substantial collection is available at each. Other materials may be available on reserve or short-term loan only at times of heavy demand.

When you register, you may obtain a library handbook which explains how to use the library to best advantage. Orientation programmes are also designed to help you, including library tours, class lectures, and a full two-credit, one-semester-long course which is offered at registration.

Since the variety of services available in the library may be confusing (ranging from the use of a film projection room to a clippings file, from study carrels to assistance with term papers, etc.), please do not hesitate to ask the library staff for assistance.

The College Bookstore

Full bookstore facilities are available on Surrey and New Westminster campuses. For the present, only ordering facilities are available at Richmond. The bookstore will supply all textbooks (except those provided by the library) and accept special orders for other books. It will also maintain a collection of paperback editions, slide rules, briefcases, notebooks, looseleaf refills, art supplies, stationery, and College T-shirts. The bookstore also buys some used texts.

Cafeteria

Cafeteria services are provided at each campus.

Parking

Adequate free parking is available at each campus.

Housing Services

Since Douglas is considered a commuter college for students in the seven school districts it serves, no residences are maintained. The Admissions Office will provide a listing of available accommodations, but will make no recommendations regarding their quality nor enter into any disputes between landlords and tenants.

GENERAL ENQUIRIES

Enquiries relating to admission and registration should be addressed to:

THE DIRECTOR OF ADMISSIONS,
 DOUGLAS COLLEGE,
 P.O. BOX 2503,
 NEW WESTMINSTER, B.C.
 or
 TELEPHONE 588-6404

The Admissions Office is located on the Surrey campus at 9260 — 140th Street.

Financial Aid

GENERAL INFORMATION

Douglas College has a number of scholarships, bursaries, and loans for which you may apply. To determine your eligibility, study the following descriptions. If you are eligible, please follow the application instructions carefully, since they differ in each case. Because negotiations for financial aid are conducted on a continuing basis, the Financial Aid Office should be consulted for the latest information. Should you require assistance with your application, or with interpretation of rules and regulations, etc., contact the Financial Aid Officer at the Admissions Office on Surrey campus, or telephone 588-6404.

Governor General's Silver Medal

A silver medal, presented by His Excellency the Governor General of Canada, is awarded annually to a Douglas College student. Although no monetary value is attached to this award, it is considered to be the highest academic honor the College can bestow. Normally, it will be awarded to the student who, in the opinion of the Selection Committee, attains the highest academic standing in the graduating year.

B.C. Art Teachers Association Scholarships

The B.C. Art Teachers Association offers scholarships totalling \$300 for grade 12 students who continue their art education at a college. Interested students may obtain up-to-date information from their art teachers, who are informed in early April of the scholarship eligibility requirements and application procedures.

B.C. High School Boys Basketball Association Scholarships

These will be awarded to successful applicants proceeding from grade 12 to a full course at any university in B.C., or at any other institution of higher learning within the province which is approved by the BCHSBBA directors. To be eligible for consideration, an applicant must:

- a) Have demonstrated proficiency in basketball;
- b) Have obtained a C average or equivalent scholastic standing;
- c) Have good qualities of character and leadership.

Applicant's "need" will be a primary consideration of the committee. He must apply in writing to: The Secretary, BCHSBBA, 1300 East 29th Avenue, Vancouver 10, B.C. Application must be received not later than June 1. Three letters of reference must accompany each application: one from the principal of applicant's school; one from a member of the high school staff other than the team coach; and one from a person who knows the applicant well and will estimate his qualities of character, leadership, and participation in community activities.

Certified General Accountants Association of British Columbia—Continuing Education Tuition Scholarship

The CGAA offers a Continuing Education Tuition Scholarship of \$250 once each calendar year. This is to be awarded, on the recommendation of the College, to a student in the Business Division who is enrolling in the CGAA Financial Management study course. Written application must be submitted to the Financial Aid Officer, Surrey campus, by the last day of lectures in the Spring semester. A personal interview may be required.

Crown Zellerbach Canada Foundation — Scholarship No. 1

Open to sons and daughters, or legal dependants, of employees of Crown Zellerbach Canada Limited, including their Vancouver office, Paper Products Division, Ocean Falls, Elk Falls, and the B.C. region, Crown Zellerbach Paper Company Limited. The award will be made to a student will full high school graduation (academic-technical programme) who is proceeding to a full academic year (two consecutive semesters) of studies at UBC, UVic, Notre Dame University of Nelson, or SFU. Winners may also attend B.C. regional colleges, provided the programme taken leads to a degree at one of the above universities. Application forms are obtainable from: Public Relations Department, Crown Zellerbach Canada Limited, 1030 West Georgia Street, Vancouver 5, B.C., or from the Industrial Relations Department in any of the company's divisions. The application form must be received not later than May 15.

Crown Zellerbach Canada Foundation — Scholarship No. 2

Open to sons and daughters, or legal dependants, of employees of Crown Zellerbach Building Materials Division in B.C. and the company's Forest Division (other than head office employees). The winner will be selected by the scholarship committee, UBC, on the basis of scholarship standing, leadership, and citizenship. The competition is open to students having full high school graduation (academic-technical programme) and who are proceeding to a full academic year (two consecutive semesters) of studies at UBC, UVic, Notre Dame University of Nelson, or SFU.

Applicants may also attend a B.C. regional college, provided the programme taken leads toward a degree at one of the above universities. Application forms are obtainable as in the preceding description. The application form must be received not later than May 15.

Government of the Province of British Columbia Scholarships

Available to students who are residents of B.C. and enrolled in grade 12 of a B.C. secondary school, or in a designated post-secondary educational institution within the province, and who are beginning or continuing a programme of studies leading to the first degree or diploma awarded in a particular faculty or technology. Also eligible are students holding an acceptable undergraduate degree and who are undertaking full teacher training in B.C., as well as students in dentistry, library science, law, medicine, and social work at UBC. These awards are not available to students enrolled in graduate studies, nor to those registered as "qualifying" or "unclassified."

The maximum number of provincial government scholarships granted in any year is determined by taking 17 per cent of all full-time grade 12 academic-technical students in B.C. secondary schools and 17 per cent of full-time undergraduate enrollment in universities and public colleges of the province, and in the B.C. Institute of Technology. Grade 12 students compete on the basis of departmental scholarship examinations; students attending post-secondary institutions compete in accordance with requirements of the institutions concerned.

Scholarship values are based on the tuition fee for the next session of undergraduate study. Students attending institutions that operate on a two-term academic year receive a percentage of the basic tuition fee for that year; students attending a semester-type institution receive a percentage of the basic tuition fee for a single semester, and have the opportunity to compete at the end of each semester.

The maximum number of awards is sub-divided as follows:

- a) Scholarships of three-quarters of the basic tuition fee are awarded to the highest ranking eligible students up to five percent of the full-time enrollment in grade 12 and in each of the designated institutions;
- b) Scholarships of one-half of the basic tuition fee are awarded to the next highest ranking six per cent of the full-time enrollment.
- c) One-third basic tuition fee scholarships are awarded to the next following highest ranking six per cent of the full-time enrollment.

These scholarships are not awarded to senior secondary school or undergraduate applicants whose grade averages are less than 70 per cent or its equivalent.

Details concerning these government scholarships, and the correct application procedures, are obtainable from schools by students currently registered in grade 12; and, in the case of students currently registered in a designated post-secondary educational institution, from the Financial Aid Officer of the particular institution.

Students currently enrolled at Douglas College must submit application forms for these awards before December 1, 1972, for students registered in the fall semester; and April 20, 1973, for students registered in the spring semester. Late applications will not be considered.

Nancy Greene Scholarships

Five scholarships of \$500 each are awarded annually to students who apply and who best combine the following qualifications.

Students currently registered in a senior secondary school (including independent and private schools), or registered in any recognised college preparatory programme in B.C., who plan to pursue an educational programme at any post-secondary educational institute in B.C., are eligible.

Applicants must show evidence of:

- 1) Good school and community citizenship;
- 2) Leadership and character;
- 3) Scholastic achievement;
- 4) Athletic ability and performance.

How to apply:

- 1) Address a personal letter of application, outlining your achievements and education goals, to the Scholarship Selection Committee, c/o The Deputy Provincial Secretary, Parliament Buildings, Victoria, B.C., postmarked not later than June 1;
- 2) Applicant should request his or her school principal and one other prominent individual in the community to send a confidential supporting letter directly to the Scholarship Selection Committee. The principal should attach a statement of grades or marks, in addition to a statement certifying athletic and other participation;
- 3) Applicant may request the governing body of his sport to submit a testimonial letter.

Applications will be reviewed by a selection committee composed of representatives from the British Columbia Amateur Sports Council and the Department of Education. Scholarships will be made available to successful applicants upon proof that they have been accepted by the institution concerned and have registered, provided they are not in receipt of a similar or other major award of \$500 or more.

Hockey Canada Scholarships

Hockey Canada was established in 1969 as a result of the recommendations of the Task Force of Sports. The scholarship programme is designed to encourage young men to pursue two equally important fronts — post-secondary education and the development of proficiency in hockey. The field of study is unrestricted, and is at all levels of post-secondary education. Award value is \$2,000, there being a minimum number of 10 such scholarships annually. The duration is for four consecutive years or until a university degree or community college diploma is obtained, whichever is sooner, provided the student has established continuing eligibility with respect to academic and hockey progress. Scholarships are open to candidates with outstanding hockey ability who are Canadian citizens; or who have held landed immigrant status for at least one year and who have graduated or are about to graduate from a secondary school with an average of at least 65 per cent in the year of graduation; or who are presently enrolled or have been enrolled in a post-secondary institution. Scholarships are tenable throughout Canada at any university or college that is a member or is affiliated with a member of the Association of Universities and Colleges in Canada having a viable hockey programme.

Deadline for applications is April 30. For information and application forms, contact: Director of Awards, AUCC, 151 Slater Street, Ottawa 4, Ontario.

Premier's Athletic Awards

Five awards of \$1,000 each will be made to B.C. students attending, or planning to attend, a designated post-secondary institution in B.C. Applicants must show evidence of athletic ability and performance, leadership, character, and scholastic achievement.

Apply in writing, outlining athletic and scholastic achievements. A supporting letter from the head of the athletic department of the student's secondary or post-secondary institution, and one from a prominent sports leader in the community, must be sent directly to the address below. The athletic director should attach a statement of athletic achievements and leadership participation. Apply before June 1 to: The Chairman, British Columbia Physical Fitness and Amateur Sports Fund Committee, Parliament Buildings, Victoria, B.C.

British Columbia Athletic Awards

Twenty-five awards of \$500 each will be made to B.C. students attending, or planning to attend, a designated post-secondary educational institution in B.C. Applicants must show evidence of athletic ability and performance, leadership, character, and scholastic achievement.

Apply in writing, outlining athletic and scholastic achievements. A supporting letter from the head of the athletic department of the student's secondary or post-secondary institution, and one from a prominent sports leader in the community, must be sent directly to the address below. The athletic director should attach a statement of athletic achievements and leadership participation. Apply before June 1 to: The Chairman, British Columbia Physical Fitness and Amateur Sports Fund Committee, Parliament Buildings, Victoria, B.C.

B.C. Hospital Employees Union Local 180 Scholarships

Scholarships are available to sons and daughters of members of BCHEU Local 180. For the academic year, two scholarships of \$350 and three of \$250 are available to students proceeding from grade 12 to a full programme of studies in any field leading to a degree or diploma at one of B.C.'s four universities, Selkirk College, Vancouver City College, BCIT, or Douglas College.

To be eligible an applicant must:

- 1) Be the son or daughter of an active member of the union, or the son or daughter of an active member as of January 1, 1972, but who has since been superannuated;
- 2) Write the government scholarship examination conducted in June by the Department of Education, and obtain clear standing and an overall average of not less than 70 per cent;
- 3) File with the Dean of Inter-faculty and Student Affairs, UBC, a letter indicating the student's parental connection with Local 180, and complete the Douglas College bursary form. This form will be sent to the candidate on receipt of the letter and must be returned not later than July 15.

Scholarships will be awarded to the candidates who, in the opinion of the university or college (in consultation with Local 180), are best qualified in terms of academic standing and financial need. Candidates should note that their intention to write government scholarship examinations must be filed with the Department of Education, Victoria, B.C., through the school principal, before June 1.

Institute of Chartered Accountants of British Columbia Scholarships

The ICA offers three scholarships of \$250 each to grade 12 candidates graduating from a B.C. high school or similar provincial institution. Application forms may be obtained from school counsellors, or from: The Director of Education, Institute of Chartered Accountants of British Columbia, 530 Burrard Street, Vancouver 1, B.C. Application must be submitted not later than 5 p.m., May 21.

Applicants for the ICA scholarships must plan to enroll and continue throughout the subsequent academic year in either one of:

- a) A full-year programme of undergraduate work at a university in B.C.;
- b) A full-year programme in the university-transfer stream of a two-year post-grade 12 institution.

Candidates must write examinations in Mathematics (Math 12, 112, or 113) and one other subject chosen from the list approved by the Department of Education for provincial scholarships. For students on the accelerated programme, subjects at 100 level will be accepted in lieu of subjects at 12 level. All examinations must be written during the June examination period.

Candidates who accept other scholarships and bursaries for the same academic year valued in aggregate at more than \$350 will not be eligible for an ICA scholarship. (A provincial government UBC fee subsidy will not be reckoned in this aggregate.)

Awards will be made to students who have achieved good scholastic standing on the prescribed examinations.

Other factors being equal, candidates who plan to ultimately train for a career in professional accounting, commerce, or a related field, will be given preference.

The Council of the Institute of Chartered Accountants of British Columbia will determine the winners of the scholarship. The Council may also elect not to grant the scholarships in any year in which a suitable candidate does not qualify.

Langley Anglican Theological Scholarship — Donated by Miss Hilda Jude

A \$150 scholarship will be awarded to a graduate of Langley (or Aldergrove) Secondary School who is or will be enrolled in any Anglican or United Church theological college. Selections will be made by the Langley Scholarship Selection Committee on the basis of scholarship, extra-curricular activities, church and community interests, and need. Applicants need not have written departmental examinations, but preference may be given to those who have. Final selection is subject to the approval of Miss Hilda Jude.

Apply to: The Chairman, Langley (or Aldergrove) Secondary School Scholarship Guidance Committee, on or before June 15. Scholarship is awarded upon winner's acceptance by an Anglican theological college. If no applicant in the current year, the scholarship will be awarded in a subsequent year. If more than one applicant in any year, the scholarship may be divided, or it may be awarded to the most deserving candidate.

Langley Memorial Hospital Medical Staff Scholarship — Donated by the medical staff of Langley Memorial Hospital

This \$200 scholarship will be awarded to a graduate of Langley (or Aldergrove) Secondary School proceeding to first year in the Faculty of Medicine at UBC or an equivalent university. Selection is to be made by the Langley Scholarship Selection Committee on the basis of scholarship, high moral force of character, and need. Applicants need not have written departmental examinations, but preference may be given to those who have.

Apply to: The Chairman, Langley (or Aldergrove) Secondary School Scholarship Guidance Committee, on or before June 15. Scholarship awarded upon winner's acceptance by UBC or an equivalent university. If no suitable applicant in the current year, the scholarship will be awarded in a subsequent year. If more than one applicant in any year, this scholarship may not be divided but is to be awarded to the most suitable candidate. If winner is subsequently awarded an equivalent or better scholarship from a source outside the fund, this scholarship may revert to the next most suitable candidate.

Langley Pharmacists' Scholarship — Donated by the pharmacists of Langley city and municipality

A \$100 scholarship will be awarded to a graduate of Langley (or Aldergrove) Secondary School proceeding to first year in the Faculty of Pharmacy at UBC or an equivalent university; or proceeding from any year in the Faculty of Pharmacy to the next year in that faculty. Selection to be made by the Langley Scholarship Selection Committee on the basis of scholarship, high moral force of character, and need. Applicants need not have written departmental examinations, but preference may be given to those who have.

Apply to: The Chairman, Langley (or Aldergrove) Secondary School Scholarship Guidance Committee, on or before June 15. Scholarship awarded upon winner's acceptance at UBC or an equivalent university. If no suitable applicant in the current year, the scholarship will be awarded in a subsequent year. If more than one applicant in any year, the scholarship may not be divided but will be awarded to the most suitable candidate. If winner is subsequently awarded an equivalent or better scholarship from a source outside the fund, this scholarship may revert to the next most suitable candidate.

W. A. McLennan Scholarships

Five scholarships of \$300 each will be awarded to a graduate of Langley (or Aldergrove) Secondary School proceeding from grade 12 to a recognised university, technical institute, vocational school, junior college, senior matriculation, nurse's training, or other approved training school. Selection to be made by the Langley Scholarship Selection Committee on the basis of general scholastic efficiency, high moral force of character, ability to co-operate with others, and financial need. In the case of a student proceeding to the study of forestry, and other determining qualities being equal, preference will be given to such an applicant. Applicants need not write departmental scholarship examinations.

Apply to: The Chairman, Langley (or Aldergrove) Secondary School Scholarship Guidance Committee, on or before June 15. Scholarship awarded upon winner's acceptance at an approved educational institution. If there are not five suitable candidates in the current year, one or more of the scholarships will be awarded in a subsequent year. If there are more than five applicants in the current year, the scholarship may not be divided but will be awarded to the five most suitable candidates. The winner of one of these five scholarships may be awarded additional scholarships from other sources and still retain this scholarship.

MacMillan Bloedel Scholarships

Eleven scholarships of \$500 each, 10 in British Columbia and one in Saskatchewan, are offered by MacMillan Bloedel Limited. The B.C. awards available are: one in each of School Districts 65 (Duncan-Cowichan), 67 (Ladysmith-Chemainus), 68 (Nanaimo), 69 (Qualicum), 70 (Alberni), 79 (Ucluelet-Tofino), 48 (Howe Sound), 85 (Vancouver Island North); and two in School District 47 (Powell River). The B.C. scholarships are open to students graduating from secondary school and proceeding to studies at recognised institutes of higher learning in B.C. Awards will be made on the basis of academic ability and potential leadership as indicated by achievements in grades 11 and 12, and by participation in school activities. Further information may be obtained from the principal, or see below. *

MacMillan Bloedel Special Scholarships

Ten scholarships of \$500 each are available annually to sons and daughters (or legal dependants) of employees serving any MacMillan Bloedel Limited division in North America. Because the majority of employees work in B.C., it is expected that most scholarships will be awarded in this province. However, the diversity of the company's operations makes it possible for awards to be made in other provinces and in the United States. These scholarships are open to students graduating from secondary school and proceeding to studies at recognised institutes of higher learning in B.C. Awards will be made on the basis of academic ability and potential leadership as indicated by achievements in grades 11 and 12, and by participation in school activities.

* Application forms, which must be submitted by May 31, are obtainable from the manager or personnel supervisor at each operating division of the company, or from: The Secretary, Scholarship Committee, MacMillan Bloedel Limited, 1075 West Georgia Street, Vancouver 5, B.C.

The Brian Nybeck Memorial Medical Scholarship — Donated by Mr. and Mrs. J. I. Nybeck

A \$100 scholarship will be awarded to a graduate of Langley (or Aldergrove) Secondary School proceeding to second year in the Faculty of Medicine at UBC or an equivalent university. Selection to be made by the Langley Scholarship Selection Committee on the basis of scholarship, high moral force of character, and need. Applicants need not have written departmental examinations, but preference may be given to those who have.

Apply to: The Chairman, Langley (or Aldergrove) Secondary School Scholarship Guidance Committee, on or before June 15. Scholarship to be awarded upon winner's acceptance by UBC or an equivalent university. If no suitable applicant in any year, the scholarship will be awarded in a subsequent year. If more than one applicant in any year, the scholarship may not be divided but will be awarded to the most suitable candidate. If the winner is awarded an equivalent or better scholarship from a source outside the fund, this scholarship may revert to the next most suitable candidate.

Regular Officers Training Plan (ROTP)

This plan combines university subsidisation with career training as an officer in the Regular Component of the Canadian Forces. Successful candidates are enrolled in the rank of officer cadet. They are required to maintain a good academic and military standing while in the plan. All tuition and other essential fees are paid by the Department of National Defence. In addition, the officer cadet receives an annual grant of \$125 for books and instruments, and is paid \$193 a month for personal and living expenses. Free medical and dental care is provided. Annual leave (30 days plus travelling time) with full pay and allowances may be granted each year, usually after the summer training period. On graduation, the officer cadet is commissioned to the rank of lieutenant.

Reserve Officer University Training Plan (ROUPT)

This plan provides an opportunity for selected undergraduates to prepare themselves for promotion to commissioned rank in the Reserve Component of the Canadian Forces. They are selected during the first months of the university year by the local Reserve Unit and are enrolled as officer cadets in the Primary Reserve. Cadets receive pay for training completed at local Reserve Units during the academic year (up to 15 days), and at training bases during the summer (up to 16 weeks).

Candidates for these scholarships must:

- Be a Canadian citizen;
- Be single and remain so until commissioned (ROTP only). ROUPT applicants may be married;
- Be physically fit for enlistment
- Be between the ages of 16 and 21 (for ROTP) on January 1 of the year that first year studies are commenced; and (for ROUPT) be between the ages of 17 and 38.

Interested students may contact:

For ROTP: Commanding Officer, Canadian Forces Recruiting Centre,
545 Seymour Street, Vancouver 2, B.C.

For ROUPT: Commanding Officer, Canadian Armed Forces Reserve, Hanger 5,
North Jericho, 4050 West Fourth Avenue, Vancouver 8, B.C.

Vancouver Sun Regional College Entrance Scholarships

The Sun offers three annual scholarships of \$250 each to students proceeding in the fall from grade 12 to first year at a regional college in B.C., in a full programme of studies (two consecutive semesters or equivalent) in courses leading to a university degree. Applicants must have been Sun carriers for at least two consecutive years and must write the scholarship examinations conducted in June by the Department of Education. Scholarships will normally be awarded to the three qualified applicants who rank highest in these examinations, but standings obtained in other subjects may also be considered (and will always be considered in the event of a tie).

A winner who ranks in the top 10 per cent in the college he has attended, and who proceeds to second year at the same college in a full programme of studies leading to a university degree, will be granted a renewal in the same amount. A winner who, after completing one or two years of college, transfers to a full course of studies at a public university in B.C., and who ranks in the top 10 per cent, at the time of transfer, among the students of his year in the college, will qualify for a further scholarship of \$500. For continued attendance at a university, he may then be eligible for up to two further renewals until obtaining his first undergraduate degree. Renewal each year is conditional upon ranking in the top 10 per cent in the year and faculty in which he is registered.

Candidates must apply on the General Application Form, which is obtainable from and must be returned by May 15 to: Scholarship Office, Room 207, Buchanan Building, University of B.C., Vancouver 8. The application must be accompanied by a Sun carrier service certificate.

Simon Fraser University Regional College Entrance Scholarships

A number of scholarships ranging in value from \$175 to \$300 are available to students entering SFU from regional, junior, or community colleges. Consideration is given to students who have completed one or two years of study at such institutions and have maintained a high academic average on a full course load, and who have been recommended for the scholarship by the college from which they are transferring. Only students who are proceeding to further university studies within a year of the completion of one or two years of study at the regional college level will be eligible. Those not enrolled in a full university course load will ordinarily not be eligible. Apply to: Financial Aid Officer, Simon Fraser University, Burnaby 2, B.C., during the first three weeks of lectures of each semester.

Vancouver Police Force Scholarships

Scholarships of \$250 each have been established to assist promising and deserving children of members of the Vancouver Police Force to continue their studies at SFU, UBC, and Douglas College beyond the level of secondary school. Academic standing and financial need will be taken into consideration. Application forms may be obtained from: The Secretary, Vancouver Police Force Scholarship Committee, 312 Main Street, Vancouver 4, B.C. Application, together with required accompanying letter, must be returned to the secretary not later than June 30.

Whalley Kiwanis Scholarship

This \$100 scholarship is open for competition among students of Douglas College on the following conditions:

- Candidate must be a permanent resident of the municipality of Surrey;
- Selection is to be made by a Douglas College scholarship committee.

Any full-time student who qualifies may apply in writing to: Financial Aid Officer, Douglas College, P.O. Box 2503, New Westminster, B.C. Applications will be accepted up to the last day of classes in the Spring semester. A personal interview may be required.

Alex Woykin Memorial Scholarship

This \$100 scholarship will be awarded to a graduate of Langley Secondary School proceeding from any year in the Faculty of Engineering at UBC or an equivalent university; or proceeding from any year in the Faculty of Engineering to the next year in that faculty. Selection to be made by Langley Scholarship Selection Committee on the basis of scholarship, high moral force of character, and need. Applicants need not have written departmental examinations, but preference may be given to those who have.

Apply to: The Chairman, Langley Secondary School Scholarship Guidance Committee, on or before June 15. Scholarship awarded upon winner's acceptance at UBC or an equivalent university. If no suitable applicant in the current year, the scholarship will be awarded in a subsequent year. If more than one applicant in the current year, the scholarship may not be divided, but must be awarded to the most suitable candidate. If winner is subsequently awarded an equivalent or better scholarship from a source outside the fund, this scholarship may revert to the next most suitable candidate.

Amalgamated Construction Association of B.C. — Construction Management Bursary

Available to students entering the third semester of the construction management programme and awarded annually by the College in consultation with the donor. To be eligible, an applicant must have satisfactory academic standing and financial need. Written application for the bursary, indicating financial need, must be submitted to the Douglas College Financial Aid Officer by the last day of classes in the spring semester. A personal interview may be required.

B.C. Indian Arts and Welfare Society Memorial Bursary

A bursary of \$100 will be awarded annually by the B.C. Indian Arts and Welfare Society in memory of those Indian Canadians who gave their lives in either world war. Native Indian applicants must be from B.C. and must be planning to enter one of the province's established universities or colleges, a recognized technical school, or other training centre. Application forms must be received by: The Honorary Secretary, B.C. Indian Arts and Welfare Society, care of The Provincial Museum, Victoria, B.C. before August 15.

Province of British Columbia Bursaries

The provincial government annually provides funds to assist B.C. students resident in the province to commence or continue an acceptable full-time programme of post-secondary study at designated educational institutions in B.C. Under special circumstances, a bursary may be made available to a B.C. student who is pursuing a course of acceptable professional study at a designated institution in another province when that course is not provided within B.C.

To qualify for a bursary (money that does not have to be repaid), a student must have achieved a minimum average of 65 per cent on a full course load in the last complete year of secondary or post-secondary undergraduate study without a failure in any subject. For a student entering first year of post-secondary studies from grade 12, the qualifying course load comprises no fewer than six subjects. For an undergraduate proceeding to a higher undergraduate year, the qualifying course load consists of 15 units, or 30 semester hours, in two consecutive terms or semesters. Bursaries are not granted to students in graduate studies, nor to those who are registered as "qualifying" or "unclassified."

Bursaries are available only to those students who demonstrate definite financial need and who are proceeding to an acceptable full programme of post-secondary study, comprising two consecutive terms or semesters, at a specified university, public college, or BCIT. It is not necessary to make a separate application for a bursary. The grant of a bursary will be considered on the basis of information provided on the form Application for Financial Assistance from Public Funds. This form must be submitted by every student seeking financial aid, whether by provincial bursary, under the Canada Student Loans Plan, or both.

Grade 12 students may obtain application form and instructions from their principal or counsellor; post-secondary students from the financial aid officer of the institution they are attending. Please take careful note of the submission dates on the application form. Late applications for a bursary will not be considered, but this does not affect eligibility for a loan. Applications for financial assistance must be submitted to the financial aid officer of the institution to be attended.

Cominco Diamond Jubilee Higher Education (Entrance) Bursaries

Cominco Limited offers annually two classifications of one-year awards to children of employees who, upon completion of secondary school, register in an institution of higher education. Class 1 awards in the amount of \$500 will be made to those who obtain 86 per cent or better standing in their senior secondary school leaving course. Class 2 awards of \$350 will be made to all student sons or daughters of employees who obtain an average between 73 and 86 per cent. For details and application form, write: The Secretary, Education Awards Committee, Cominco Limited, Trail, B.C.

The Grand Lodge Masonic Bursaries

The Grand Lodge of Ancient Free and Accepted Masons of British Columbia offers annual bursaries of from \$200 to \$500 each to sons, daughters, and legal wards of active members of Masonic lodges in B.C., or of deceased members who at the time of death were active members. The purpose of these bursaries is to give assistance to students who, otherwise lacking financial aid, might find it impossible to continue their education.

Winners will be selected by the university from among applicants having satisfactory academic standing and who are beginning or are continuing undergraduate studies at UBC, SFU, UVic, BCIT, or a regional college, in a full programme leading to a degree or certificate in any field. Preference given to applicants entering the university or college from grade 12, and to undergraduates in second-year studies.

To qualify for consideration, a candidate must obtain an application form from UBC's scholarship and bursary office. The completed application, which must be received by the university not later than July 15, must be accompanied by a letter from the lodge secretary verifying the applicant's parental association with the Order. Since a special committee considers the applications, those who wish to apply for other bursaries must submit a separate application. Each application must be accompanied by a transcript of the student's academic record at the institution most recently attended. If the grade 12 transcript is not immediately available, it must be forwarded at the first opportunity.

Gyro Club of New Westminster Bursary

This bursary of \$200 will be awarded to a full-time student who has been a resident of New Westminster for at least five years. For details and application requirements, contact the Douglas College Financial Aid Officer at the Surrey campus.

Independent Order of Foresters — Court Royal City 718 Bursaries

Four \$100 bursaries are available to members, or sons or daughters of members, of Court Royal City 718, Independent Order of Foresters, for post-secondary education. Application forms obtainable from and returnable by May 1 to the Court secretary, Dr. Fred Hockey, 439 East Eighth Avenue, New Westminster, B.C.

Independent Order of Odd Fellows Joint Bursary

Three \$100 bursaries are available annually to assist students who are undertaking a full-time post-secondary education. These are provided by the Grand Lodge, Rebekah Assembly, and the Grand Encampment of the Independent Order of Odd Fellows of British Columbia. Applicants must have direct connection with one or more branches of the Order through parents, grandparents, or close relations. Special consideration given to financial need.

Details and application forms are obtainable from the secretary of any Odd Fellows or Rebekah Lodge, IOOF. Applications should be submitted to the appropriate lodge by May 1, and must be sponsored by an Odd Fellows Lodge, Rebekah Lodge, or Encampment.

John B. MacDonald Alumni Bursaries

The Alumni Association of UBC is offering 10 bursaries of \$350 each to students entering UBC for the first time from a regional college. It is expected that at least one award will be available to each college. Selection of students will be based on eligibility to enter the university, academic standing and, particularly, financial need.

A student must be registered for a full programme of studies leading to a degree in any faculty. Application form obtained from and submitted to The Scholarship and Bursary Office, Room 207, Buchanan Building, UBC, Vancouver 8, B.C., not later than July 15.

Each student nominated by the principal of a college (maximum of three from any one college) must complete UBC's Application for Bursary form. This form, accompanied by a letter of nomination from the principal and a transcript of the student's college studies taken to date, must then be forwarded to UBC. The principal's letter will indicate whether the student is first, second, or third choice of the college, and will provide further relevant information to assist the committee in selecting the 10 winners.

Merrill C. Robinson Bursary Fund — Sponsored by CNIB

This fund is sponsored by the Canadian National Institute for the Blind in memory of the late Merrill C. Robinson, MBE, LL.D. for his long service to the blind. It will be administered by a special committee of the CNIB Divisional Board, and used to assist blind students attending any university or college (other than UBC) within the B.C.-Yukon division. Awards will be made only to those who show ability and promise. Applications must be received by the CNIB, 350 East 36th Avenue, Vancouver 15, by July 31.

The Royal Canadian Legion (Pacific Command) — Bursaries, Scholarships

The Royal Canadian Legion (Pacific Command) offers annual awards for students proceeding from secondary school to college or university, as well as students entering second, third, and fourth years. Scholarships and bursaries are awarded on the basis of academic standing and financial need. Preference is given to sons and daughters of deceased, disabled, or other veterans, although applications from other worthy students are also given consideration. Deadline for applications is May 31. Obtain information from: Pacific Command, The Royal Canadian Legion, 1531 West Pender Street, Vancouver 5. Unless application is completed and required items are forwarded, absolutely no consideration will be given by the committee.

The Royal Canadian Legion (Pacific Command) Ladies Auxiliary to Branch No. 4, Chilliwack — Bursaries

Two bursaries of \$150 each are offered to graduates of Chilliwack secondary schools proceeding to an institution of higher education. Preference given to sons and daughters of veterans. Applicants must demonstrate financial need and academic ability. Forms and information obtainable from: The Secretary, Ladies Auxiliary, The Royal Canadian Legion, Branch No. 4, 45468 Crescent Drive, Chilliwack, B.C.

Vancouver Foundation Bursaries

The Vancouver Foundation aids students who present evidence of sound academic achievement or promise and who have financial need. If you meet these criteria, the Foundation invites the following:

- A detailed biographical letter outlining the circumstances of your life to date, including extra-curricular activities, employment, savings, and awards or other funds for higher education; and such further information that would help a committee to assess your abilities, potentialities, and need;
- A complete current academic transcript including the present scholastic year, if available;
- Names of two references, one of whom should be an educator who is acquainted with your latest academic work.

A personal interview is an important part of the selection procedure. If you reside in Vancouver, or are studying in the metropolitan area, telephone the Vancouver Foundation office for an appointment within one week of making application. For others, local interviews are arranged in the spring at various locations in the province; it is the responsibility of the applicant to consult with the Douglas College Financial Aid Officer regarding time and place. Also, those who do not make an appointment as prescribed above must arrange for a personal interview at the Vancouver Foundation office.

For the convenience of applicants, personal interviews will be held at or near the College prior to the end of the academic year. Therefore, applications should be submitted by April 1 to: The Bursary Committee, Vancouver Foundation, 1105 West Pender Street, Vancouver 1. Final date for applications is July 15, with awards to be announced in August and payable in September. Consideration may be given at other times to applicants commencing studies in either the spring or summer semesters.

Hockey Canada Bursaries

Douglas College students may apply for Hockey Canada bursaries.

Application form and information may be obtained from Hockey Canada, P.O. Box 278, Toronto-Dominion Centre, Toronto 113, Ontario.

LOANS

B.C. Youth Foundation Loans

The B.C. Youth Foundation was established in 1946 by a donation from the late Joseph A. McKercher. An additional bequest has since been received from the E. S. H. Winn estate. Interest-free loans are made to bona fide B.C. residents to a maximum age of 30. Loans may be used for fees, books, or a monthly allowance to assist with living expenses when the applicant is not residing at home. Students eligible for government loans should first apply to that source. The Foundation loans are designed not only for university or college education, but also for students completing grade 12 or studying in technical or vocational fields. An adult guarantor is usually required.

Applicants should have an aptitude for their chosen field of study and show promise of a reasonable chance of success. They should contribute some of their own money to the cost of their education when possible.

Please note: To determine eligibility for a B.C. Youth Foundation Loan, contact the Douglas College Financial Aid Officer, Surrey campus. If you appear to meet the requirements, you will be referred to Mr. S. E. Walmsley, Vancouver School Board, 1595 West 10th Avenue, Vancouver, for an interview.

Government of Canada Student Loans Plan

This federal government plan assists students who otherwise would be unable to pursue full-time post-secondary studies. The maximum loan for an academic year is \$1,400. Total loans to any student cannot exceed \$9,800. A loan of up to \$700 may be authorized for a single semester which is part of a longer programme of study.

Borrowers are required to repay principal and interest by regular monthly instalments. Payments commence six months after the borrower ceases to be a full-time student. No payments need be made while the borrower is a full-time student, nor for six months thereafter. Interest during this period is paid by the federal government on behalf of the student.

Student need is determined by provincial loan authorities in accordance with criteria established for use throughout Canada. Parental contribution is a criterion and is applied in all cases where the student has not established financial independence by being married; or by having completed successfully four full years of post-secondary education; or by having attained the age of 21 years and at least 12 consecutive months' full-time employment.

It is expected, of course, that students will save a portion of any summertime earnings toward continuing their education.

Loan recipients should carefully consider the repayment obligation being undertaken. A loan applicant must, as a first step, obtain an application form from the institution that he plans to attend, and complete it carefully. Declarations are required from both the student and a parent that all information therein is correct.

The application is then submitted to the financial aid office of the educational institution to be attended. Students planning to attend an institution outside B.C. must send applications to: Student Awards Branch, Division of Post-Secondary Services, Department of Education, Parliament Buildings, Victoria, B.C.

Langley 5c-to-\$1.00-Store Loans

To be awarded to a graduate of Langley (or Aldergrove) Secondary School proceeding from grade 12 to UBC or an equivalent university; or to a recognised training or vocational school; or to a junior college. Selection to be made by the Langley Scholarship Selection Committee on the basis of scholarship, extracurricular activities, high moral force of character, community interests, and financial need. Applicants are not required to write departmental examinations.

The amount available is \$400 (Langley \$200, Aldergrove \$200).

Apply to: The Chairman, Langley (or Aldergrove) Secondary School Scholarship Guidance Committee, on or before June 15. Loan to be awarded upon acceptance by UBC or an equivalent university, a recognised training or vocational school, or a junior college. If no suitable applicant during any year, the loan will be awarded in a subsequent year. If more than one applicant in any year, the loan may not be divided but will be awarded to the most suitable candidate. The full amount of a loan will be repaid to the Langley Scholarship Fund under the following conditions:

- The loan is interest-free and is not repayable during the period of education.
- The loan must be repaid not later than two years following the winner's completion of his or her education;
- Repayment arrangements to be made with the Langley Scholarship Bursary Committee.

SPECIAL FINANCIAL ASSISTANCE

Health Branch — Division for Aid to Handicapped

Students who are disabled and receiving medical attention, and who wish to attend Douglas College, may be eligible for financial assistance from the Division for Aid to Handicapped. Such assistance must, however, be part of a rehabilitation plan approved by the division and may not be requested as a bursary or scholarship. For information regarding eligibility write: Director, Division for Aid to Handicapped, P.O. Box 4020, Postal Station D, Vancouver 9.

University Women's Club — Cloverdale-Langley Special Fund

This fund is open to students experiencing special financial difficulties not covered by scholarships, bursaries, or loans. It is particularly designed to assist women with small children seeking retraining through Douglas College programmes. For information regarding eligibility, contact the Douglas College Financial Aid Officer, Surrey campus.



DOUGLAS COLLEGE is the college of your community, established to serve the official school districts of Burnaby (41), Coquitlam (43), Delta (37), Langley (35), Maple Ridge (42), New Westminster (40), Richmond (38), and Surrey (36).

Enquiries are also welcomed from students who do not reside in any of the Douglas College districts.

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1972-1973

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	Co-ordinator of Audio-Visual Services
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 P.Eng. Principal

Mrs. Lillian **Zimmerman**, B.A. (SFU)

+ On leave of absence 1972-73

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 de France) Theatre
 Emery O. **Barnes**, B.S. (Oregon), B.S.W. (UBC) Social Services
 Kenneth P. **Bogas**, B.A., B.S.W. (UBC) Social Services
 Robert A. **Bricker**, B.Mus., M.A. (Wayne State) Music
 Gordon A. **Brittain** Construction Management
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 M.F.A. (Pratt Institute) Fine Art
 rs. Beryl H. **Butterfield**, B.A. (Graceland College),
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 Music
 Russian, History, Political
 Science

Chemistry
 Physical Education

German
 Geography
 Counselling
 Geography

Political Science
 Economics
 Counselling
 Sociology

English
 Director of Counselling
 Sociology

Political Science

Physical Education, First Aid

Music

Music

Director of Libraries

Geology, First Aid

Principal

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Mrs. Carell **Johnson**, B.A., M.A. (UBC)

J. Gregory **Kiener**, B.F.A. (Chouinard Art School)

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Donald E. **Knispel**

Edward **Lazenby**, B.Mus. (UBC)

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Cardo B. **Smalley**

Robert J. **Squires**, B.A. (Ottawa), M.S.W. (Hawaii)

Warren H. R. **Stannard**, M.Mus. (Yale)

Scott B. **Stewart**, B.A. (Man.), LL.B. (Tor.)

Mrs. Jerri **Stribbell**

S. Albert **Thorvaldson**, B.A. (Man.), M.A. (UBC)

Michael D. **Tkachuk**, B.Sc. (Alta.)

Geoffrey **Traunter**

Mrs. Jacqueline **Van Campen**, B.A., B.S.W. (Laval), M.A. (SFU)

Frederick C. **Van Der Ree**, Dip. (BCIT)

Mrs. Sonya **Van Niekerk**, Dip. (Bulawayo Teachers
 Training College)

Roger **Vernon**, Dip. (St. Albans School of Art),
 B.A. (London)

Miss Sarah M. **Warren**, B.A. (UBC)

Miss Donna C. **White**, B.A. (UBC)

Janusz M. **Wilczek**, M.A. (Krakow)

John A. **Wong-Hen**, B.Sc. (Hons.) (Leicester), M.Sc.
 (London)

J. Stephen **Yorke**, B.Sc. (Hons.), Ph.D. (Wales)

ADMINISTRATIVE PERSONNEL

Louis **de Verheyen**
 Wesley S. **Gibbons**
 Neil S. **Hill**, B.A. (Queens)

Robert R. **Lisson**, B.Comm. (Alta.)

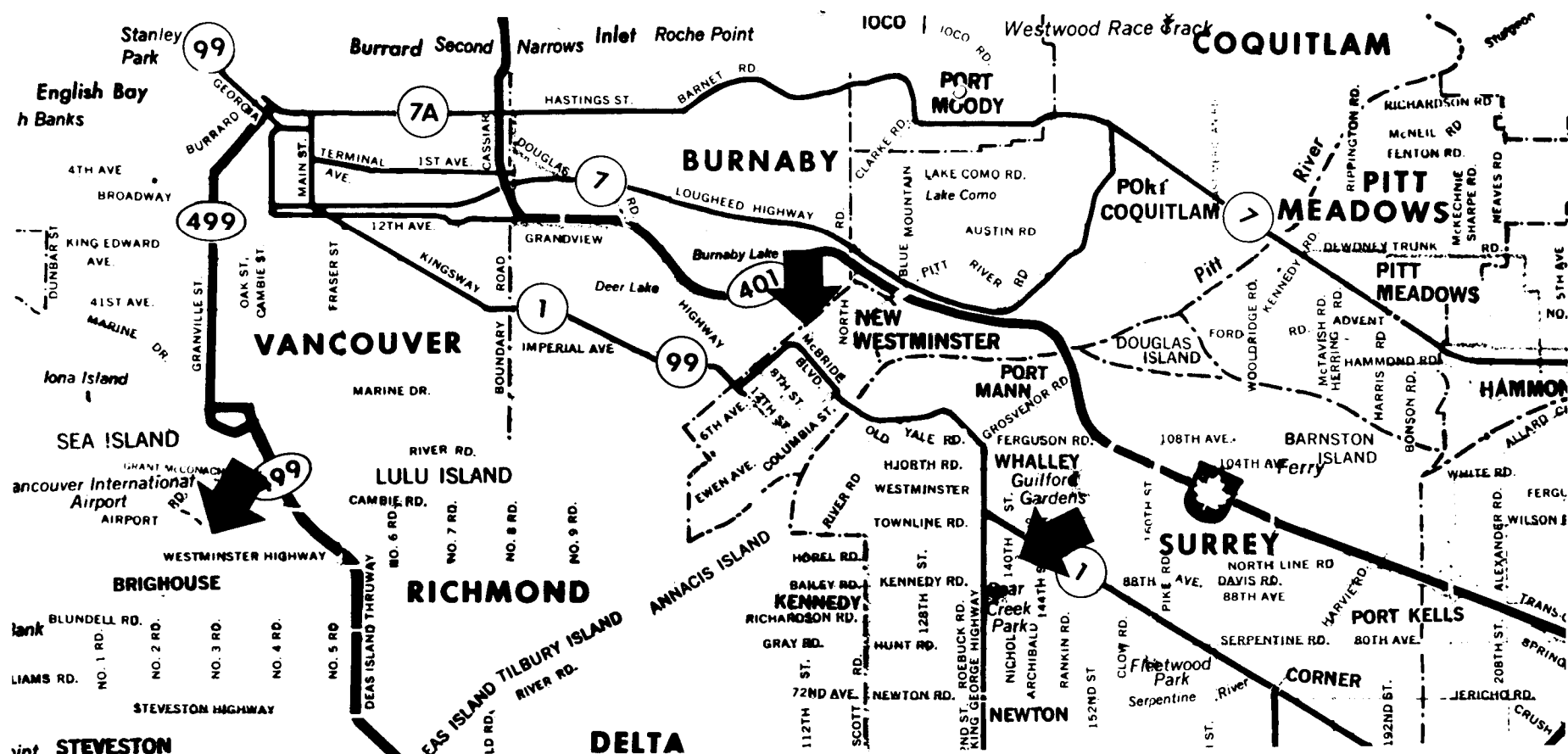
M. H. (Bill) **Morfe**, B.Comm. B.A. (UBC)

Marvin C. **Southcott**, D.Tech. (Seneca College)

S. T. Walton CGA

Bookstore Manager
 Chief Custodian
 Supervisor of Personnel
 and Student Placement
 Supervisor of Purchasing
 and Budget Control
 Bursar
 Campus Administrator,
 New Westminster and
 Richmond
 Supervisor of Accounting

CAMPUS LOCATIONS



Programme Descriptions

CAREER PROGRAMMES

ACCOUNTING

Although 1972 surveys show reduced employment opportunities in many fields, there is a steady demand for accountants with professional qualifications.

The Douglas accounting programme matches the content and standards of various courses offered by the Certified General Accountants Association, the Society of Industrial Accountants, and certain requirements of the Institute of Chartered Accountants. Successful completion of this diploma programme can result in exemption of about one-half of the academic programme leading to the RIA and CGA designations. As course requirements for CGA and RIA programmes change, corresponding alterations in the College programme may be made.

You are invited to discuss your specific career requirements with the Student Development Centre.

Students completing the following requirements are awarded the Diploma of Associate in Arts (A.A.):

SEMESTER 1

Course	Descriptive Title	Credit
81-110	Accounting Principles	3
86-120	Business Law	3
86-130	Business Mathematics	3
92-110	Career Communications	3
	Elective	3

SEMESTER 2

81-210	Accounting Principles	3
81-240	Electronic Data Processing	3
86-210	Personnel Practices	3
86-220	Business Law	3
	Elective	3

SEMESTER 3

81-310	Accounting Theory	3
81-320	Cost Accounting	3
83-311	Principles of Economics	3
86-330	Business Statistics	3
	Elective	3

SEMESTER 4

81-410	Accounting Theory	3
81-420	Cost Accounting	3
81-440	Information Systems	3
83-411	Principles of Economics	3
	Elective	3

Electives may be chosen from any discipline. Examples of options in the business area are:

Course	Descriptive Title	Credit
84-290	Industrial Relations	3
86-110	Introduction to Management	3
86-170	Office Equipment	3
86-270	Office Systems	3
86-310	Marketing Management	3

CHILD-CARE SERVICES

This is a one-year certificate programme. It prepares students for employment as child-care workers in a variety of institutions which provide 24-hour care. These may include such settings as children's villages, group homes, treatment centres for emotionally disturbed or mentally retarded children, and student residences operated by the Department of Indian Affairs.

The Child-Care Services programme combines theoretical information and practical skills taught in the classroom with practical field experience. It has a limited enrollment, thus if you wish to register you should contact the Admissions Office to arrange for an interview regarding your eligibility. If you are not admitted, you may take certain courses, with the exception of the practical field work. The certificate is granted when the programme, including practical field experience, is successfully completed.

Field work is an integral part of the programme. It involves training in a variety of child-care settings, and you must be prepared to accept a field placement at a time and place arranged by the College.

SEMESTER 1

Course	Descriptive Title	Hrs-Wk	Credits
64-100	Hobbycrafts	4	3
69-100	Emotional Growth	4	3
69-110	Methods and Practicum	4 + 2 days	6
92-110	Essentials of Business and Technical Writing	4	2
	Elective		3

SEMESTER 2

69-121	Administration and Organization	4	3
64-200	Recreation	4	3
69-200	Emotional Maturity	4	3
69-210	Techniques and Practicum	4 + 2 days	6
69-210	Elective		3

COMMERCE and BUSINESS ADMINISTRATION

Since many students wishing to prepare for a business career do not have a well-defined objective, the College's business programme has been designed to provide maximum flexibility in choice of options. Thus, it should appeal to both those wishing a general business education and those having a specific career in mind.

The content of the first and second semesters of the programme provides a basic introduction to the environment and underlying principles and practices of business. It is expected that, during these initial semesters, the student will be able to define goals and identify areas of business of personal interest. Accordingly, the third and fourth semesters offer a wide variety of business options, enabling the student to select a series of courses concentrating on specific fields of business activity and operation.

SEMESTER 1

Course	Descriptive Title	Credit
81-100	Introduction to Accounting	3
86-100	Introduction to Business	3
86-170	Office Equipment	3
92-110	Career Communications	3
	Elective	3

SEMESTER 2

83-100	Fundamentals of Economics	3
86-110	Introduction to Management	3
86-120	Business Law	3
86-270	Office Systems	3
	Elective	3

Note: Students who consider that professional accounting may be their career choice should enroll in Accounting Principles 81-110 instead of 81-100.

SEMESTERS 3 and 4

In each semester, 12 semester hours (four subjects) of business options, and three semester hours of electives, are required. Electives may be chosen from any discipline. Examples of options are:

81-240	Electronic Data Processing	3
81-440	Information Systems	3
84-100	Retail Merchandising	3
84-120	Introduction to Marketing	3
84-210	Dynamic Selling	3
84-290	Marketing Management	3
86-105	Basic Business Finance	3
86-109	Supervisory Management	3
86-111	Small-Business Management	3
86-130	Business Mathematics	3
86-140	Introduction to Electronic Data Processing	3
86-210	Personnel Practice and Administration	3
86-220	Business Law	3
86-301	Advertising Seminar	3
86-310	Industrial Relations	3
86-330	Business Statistics	3
86-350	Introduction to Traffic and Transportation	3
86-360	The Travel Agent	3
86-361	Front-office Management	3
86-380	Operations Management	3
86-450	Traffic and Transportation Management	3
86-460	The Travel Agent	3

CONSTRUCTION MANAGEMENT

This programme consists of 10 core courses dealing extensively with the functions related to organisation and control of a construction project, whether it be a single-family dwelling or a large dam project. In addition, there are a number of service courses in which the materials, methods, and applications of the industry are discussed. The service courses help the student to visualize what is being managed as he studies the core courses.

The two-year programme leading to the Diploma of Associate in Arts (A.A.) requires that a student complete both the core and the service courses. It is geared to students who have just completed high school and wish to enter the industry with some managerial training. Graduates should expect to enter the construction industry in a junior capacity, such as assistant to an estimator or project supervisor. Promotion to supervisory positions will require considerable work experience.

The 10 core courses are also offered in the evening, which allows persons already in the industry, and whose knowledge of the service course material is extensive as a result of job experience, to study the managerial aspects in detail. Successful completion of the core courses entitles the student to the Certificate in Construction Management.

The purpose of the course content of this program has been to produce a package which suits the needs of the industry, and which reflects techniques of profit-making being used today. To this end, the programme was set up in consultation with an advisory committee consisting primarily of members of the Amalgamated Construction Association of B.C. By adopting their suggestions and obtaining their approval of every aspect of the programme, the College is endeavoring to offer a career programme which can lead directly into employment in the industry.

Because those who enter the diploma programme may or may not have had any field training in the industry, there is a requirement for summer work experience. Opportunities will be provided between the second and third semesters for on-the-job experience which will assist the student in eventual placement.

CONSTRUCTION MANAGEMENT continued

Programme Leading to Diploma of Associate in Arts (A.A.):

SEMESTER 1

Course	Descriptive Title	Credit
70-110	Construction Written Communications	3
70-120	Construction Materials and Applications	3
70-130	Drafting	2
70-140	Construction Science	3
70-150	Construction Calculations	3
	Elective	1-3

SEMESTER 2

70-100	Construction Oral Communications	3
70-200	Introduction to Management	3
70-220	Construction Materials and Applications	3
70-230	Construction Blueprint Reading	2
70-240	Construction Science	3
	Elective	1-3

SEMESTER 3

70-300	Construction Management	3
70-301	Construction Labor Relations	3
70-320	Construction Strength and Design	3
70-360	Construction Estimating	3
70-390	Construction Surveying	3
	Elective	1-3

SEMESTER 4

70-400	Office Management	3
70-460	Construction Estimating and Bidding	3
70-490	Structures	3
70-492	Construction Scheduling	3
70-493	Project and Contract Management	3

Programme Leading to Certificate in Construction Management:

70-100	Construction Oral Communications	3
70-110	Construction Written Communications	3
70-200	Introduction to Management	3
70-300	Construction Management	3
70-301	Construction Labor Relations	3
70-360	Construction Estimating	3
70-400	Office Management	3
70-460	Construction Estimating and Bidding	3
70-492	Construction Scheduling	3
70-493	Project and Contract Management	3

FASHION DESIGN and CLOTHING TECHNOLOGY

Douglas College offers a two-year programme in Fashion Design-Clothing Technology leading to the Diploma of Associate in Arts (A.A.). A limited enrollment is predicated on annual employment opportunities.

The programme was developed to provide a broad fundamental knowledge of all essentials in the fashion area: creative designing, the arts of draping and pattern drafting where creative concepts are translated into producible garments, and construction — the manual techniques for implementing the previous stages.

The four-semester programme has a core content of four courses: pattern drafting, apparel design and textiles, draping, and construction — plus two electives each semester. Communications is a required course.

Although the four core courses are required, students are encouraged to select options which will contribute to their future ability in the area of the fashion industry which best suits their talents and preferences; e.g., wholesale and retail merchandising, mass production, pattern making, couture, theatrical design, or journalism.

Techniques that simulate the professional atmosphere are used extensively in the learning experience. All equipment used is industrial. An industrial flow is achieved by the inter-relation of all core courses, which are primarily laboratory situations. The apparel design and textiles course is the exception, where lectures and research form part of the course. Courses are supplemented by field trips, slide presentations, films, and the appearance of guest speakers.

Second-semester students participate in work experience, such as the industry's "Market Week" or working in manufacturing agents' showrooms. Third and fourth-semester students are responsible for the design and execution of costumes for College plays whenever feasible. Fourth-semester students engage in a practicum one day a week, on a rotation basis, to provide on-the-job training in many of the varied fashion areas. Upon completion of this semester, students produce and take part in fashion shows, thus bringing into focus their training throughout the two-year period.

Practical field work is an integral part of this programme. It involves training in a variety of fashion settings. You must be prepared to accept field placements at a time and place arranged by the College.

Some suggested electives for fashion programme:

ACCOUNTING

81-100	Introduction to Accounting
81-110	Principles of Accounting
81-210	Financial Analysis and Internal Control
81-320	Cost Accounting

FASHION continued

MERCHANDISING

84-100	Retail Merchandising
84-130	Advertising
84-210	Dynamic Selling and Effective Verbal Communication

BUSINESS

86-100	Introduction to Business
86-101	Business Organisation
86-110	Introduction to Management
86-210	Personnel Practice and Administration

ENGLISH

92-110	Career Communications
92-120	Creative Writing — Multi-Media
92-290	Applied Communications

FASHION

61-390	History of Costume
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ART

11-120	History of Western Art to 1600 A.D.
11-121	History of Western Art: 1600 to 20th Century
11-160	Fundamental Design Theory
11-260	Fundamental Color Design Theory

FASHION ILLUSTRATION

13-140	Drawing
13-240	Drawing
13-340	Drawing
13-440	Drawing

INTER-DEPARTMENTAL

34-130	Frontiers of Thought
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FIRE SCIENCE

This programme allows a student to work toward a Certificate in Fire Science, gaining special knowledge in two of the fields of fire insurance, fire prevention, fire suppression, fire investigation, and fire science technology. The objective is to provide those already connected with the field of fire and fire prevention with detailed technical information relating to one of these five areas.

To complete the certificate requirements, a student is required to complete three core courses: Chemistry of Fire, Survey of Fire Science, Business and Technical Communications. In addition, he will study two courses in his area of interest which will channel him into two of the five areas of specialisation. The programme therefore serves the needs of all the major areas connected with the fire field by providing courses of study in each.

Since a course lasts one semester, a student will attend evening classes for five semesters to complete the programme. Where required, classes will be arranged on a "swing-shift" basis to accommodate shift-workers who are unable to attend evening classes.

Programme Leading to Certificate in Fire Science:

Course	Descriptive Title	Credit
63-100	Chemistry of Fire	3
63-101	Survey of Fire Science	3
63-270	Fire Insurance	3
63-271	Fire Prevention	3
63-272	Fire Suppression	3
63-273	Fire Investigation	3
63-274	Fire Science Technology	3
92-110	Career Communications	3

GRAPHIC and COMMUNICATION ARTS

This two-year programme, leading to the Diploma of Associate in Arts (A.A.), prepares students for a wide variety of positions in advertising and allied areas of the creative arts.

Talent may be limited but it must be accompanied by a capacity for unlimited effort. Skill and dexterity can come only from practice and perseverance in the subject. Technique as such is but a part of the contemporary artist who needs to acquire knowledge and judgment in many phases of the profession to become a practitioner.

The programme gives the student a foundation of thorough knowledge and skill in the basics, from which his creative potential can grow and which will stand him in good stead regardless of the career he follows.

The student should possess enthusiasm, a desire to compete, and be prepared to give and accept constructive criticism.

The course will be given with a professional approach, solving problems closely related to those found in the field and often working on a deadline basis.

Students are required to take a common core of first-semester courses to discover their potential and to decide on a career; second and third semesters provide op-

portunities to specialise in any one of four related career areas; the fourth brings the student to the level of competency required to enter his chosen career.

The two-year programme provides a sound foundation on which students may prepare for a career in the areas of advertising, display, in-plant printing, lithography, or audio-visual and photography.

Among the possible career areas are:

Advertising, commercial artist, commercial illustrator, fashion illustrator, layout artist, retouch artist, paste-up artist, production assistant, account executive;

Display, visual merchandising in retail, industrial, educational, and cultural outlets;

In-plant printing, paste-up and mechanical, printers, lithographers, newspapers, signs, silkscreen, ticket writing, billboards;

Audio-visual, graphic artist, educational, industrial, business, photography.

Following is the sequence of courses:

SEMESTER 1

Course	Descriptive Title	Credit
13-100	Basic Drawing	4
or		
13-140	Fashion Illustration	3
13-110	Introduction to Commercial Illustration	3
13-120	Introduction to Graphics and Applied Design	4
13-131	Lettering, Layout, Typography	1
13-135	Introduction to Advertising	3
13-150	Graphic Arts (Technical)	1½
	Elective	3

Required in



Credit	ADVERTISING	DISPLAY	PRINTING	AUDIO-VISUAL
2		X		
3	X		X	X
4	X	X		
3	X	X		
4	X		X	X
1½	X	X	X	X
3	X	X		
1½			X	X
3		X		
3	X	X	X	X
3				
3		X		X
3		X	X	X
4	X	X		
3	X		X	X
4	X	X		
3	X	X		
4	X		X	X
3	X	X		
3	X	X		
1½			X	X
3	X	X		
1				X
3		X	X	X
3	X	X	X	X

SEMESTER 2

11-150	Communication Drawing	2		X		
13-121	History of Graphic Communications	3	X		X	X
13-200	Drawing	4	X	X		
13-210	Commercial Illustration	3	X	X		
13-220	Graphics and Applied Design	4	X		X	X
13-231	Lettering, Layout, and Typography	1½	X	X	X	X
13-240	Fashion Illustration—optional	3	X	X		
13-250	Graphic Arts (Technical)	1½			X	X
84-100	Retail Merchandising	3		X		
	Elective	3	X	X	X	X

SEMESTER 3

84-101	Visual Merchandising and Display	3		X		X
84-120	Introduction to Business	3		X	X	X
13-151	Technology of Graphic Communications	3	X		X	X
13-300	Intermediate Drawing and Painting	4	X	X		
13-310	Intermediate Commercial Illustration	3	X	X		
13-320	Intermediate Graphics and Applied Design	4	X		X	X
13-340	Fashion Illustration (optional)	3	X	X		
13-350	Graphic Arts (technical)	1½			X	X
92-110	Essentials of Technical and Business Communications	3	X	X	X	X
	Elective	3	X	X	X	X

SEMESTER 4

84-201	Visual Merchandising and Display	3		X		
13-400	Advanced Drawing and Painting	4	X	X		
13-410	Advanced Commercial Illustration	3	X	X		
13-420	Advanced Graphics and Applied Design	4	X		X	X
61-420	Design and Textiles	3		X		
13-440	Fashion Illustration (optional)	3	X	X		
13-450	Graphic Arts (technical)	1½			X	X
61-490	History of Costume (optional)	3	X	X		
66-115	A-V Graphics for Visual Aids	1				X
86-110	Introduction to Management	3		X	X	X
	Elective	3	X	X	X	X

Douglas College is a multi-purpose institution with equal emphasis on University Transfer, Continuing Education & Careers

INTERIOR DESIGN

This is a two-year programme leading to the Diploma of Associate in Arts (A.A.). It is designed to prepare students for positions in retail and contract sales departments, and in selling interior design services and furnishings. Graduates may find employment in design studios, paint, fabric, carpet, drapery and wallpaper outlets, manufacturers, distributors, and representatives of office and home furnishings.

Included are such courses as drafting, theory of design, residential and commercial interior design, presentation techniques, furniture construction, merchandising and advertising. Time is provided for electives and field trips.

A work-experience session will materially assist in eventual job placement, as well as in introducing the student to practical problems of the industry.

SEMESTER 1

Course	Descriptive Title	Credit
68-100	Drawing for Interior Design	1
68-101	Introduction to Color	1
68-102	Italian and French Furniture	3
68-104	Materials and Design	1
68-110	Theory of Design	2
68-120	Drafting and Perspective	3
86-100	Introduction to Business	3
	Elective	3

SEMESTER 2

68-200	Drawing for Interior Design	1
68-203	English and American Furniture	3
68-205	Materials for Interior Design	2
68-210	Theory of Residential Design	2
68-220	Residential Interior Design	3
68-221	Rendering and Presentation	1
84-100	Retail Merchandising	3
	Elective	3

SEMESTER 3

68-310	Theory of Office Interior Design	2
68-320	Office Interior Design	3
68-321	Introduction to Graphic Presentation	1
68-380	Interior Design Work Experience	1-5
92-110	Essentials of Business and Technical Communications	3
	Elective	3

SEMESTER 4

68-405	Projects in Interior Design	1
68-410	Theory of Hotel-Motel Interior Design	2
68-421	Hotel-Motel Interior Design	3
68-431	Special Projects in Design	2
84-210	Dynamics of Selling and Effective Verbal Communications	3
	Elective	3

LAW ENFORCEMENT

For those not presently employed in police or corrections work, the programme offers courses leading to the Certificate and the Diploma of Associate in Arts (A.A.). The certificate programme requires the equivalent of one year or two semesters full-time attendance. The diploma programme is a two-year or four-semester programme. Both may be taken by part-time students.

The programme was designed with the advice and assistance of an advisory committee comprising representatives of employing agencies in the field. These agencies have agreed to consider graduates as preferred recruits in law enforcement and corrections, provided they meet the other employer requirements.

For students attending on a full-time basis, the programme offers a core of required subjects and a full range of electives which may be taken from courses listed in the Calendar.

Continuing education students also have a wide choice of options available. The choice depends on whether the student is employed in a police or corrections agency.

The programme attempts to build a firm base of subjects directly related to law enforcement and corrections, as well as to introduce the student to the foundations of the social sciences. Courses offered in the social sciences are transferable to various Canadian universities. Therefore, the classes consist of a desirable mix of full-time students of varying interests, and part-time students employed in law enforcement or corrections.

LAW ENFORCEMENT continued

Course	Descriptive Title	Credit	Semester
28-100	Foundations of Contemporary Psychology	3	1
23-125	Social Processes	3	1
62-106	An Introduction to Police and Correctional Services	3	1
92-110	Career Communications	3	1
22-110	Ideology and Politics	3	2
or			
22-120	Canadian Government	3	2
28-200	Foundations of Contemporary Psychology	3	2
62-108	Crime Causation	3	2
92-290	Applied Communications	3	2
22-105	The Canadian Legal System	3	3
28-321	Adolescent Psychology	3	3
or			
28-330	Introduction to Social Psychology	3	3
or			
28-350	Conceptual Framework of Abnormal Psychology	3	3
62-102	Criminal Law and the Offender	3	3
62-101	Probation and Parole	3	4
62-107	Community Agencies	3	4
62-140	Interviewing	3	4

In addition, a further 18 semester hours (six courses) are required to complete the diploma programme. These electives, which may be selected from any courses in the Calendar, should normally be taken as follows:

a) One elective in each of the first and second semesters;

b) Two electives in each of the third and fourth semesters.

One-Year Certificate Programme (Full-Time)

Course	Descriptive Title	Credit	Semester
92-110	Career Communications	3	1
92-290	Applied Communications	3	2

In addition, a further 27 semester hours (nine courses) are required to complete the certificate programme. These additional courses are selected from among the courses listed for the diploma programme.

Programme for Serving Police and Corrections

Course	Descriptive Title	Credit
92-110	Career Communications	3
92-290	Applied Communications	3

Plus 24 semester hours (eight courses) from the following list for certificate students. Diploma students require an additional 18 courses (54 semester hours), of which a minimum of 24 semester hours (eight courses) must be chosen from the following list. The balance of 10 courses (30 semester hours) may be chosen from this list or from among other courses.

Course	Descriptive Title	Credit
22-110	Ideology and Politics	3
or		
22-120	Canadian Government	3
23-125	Social Processes	3
28-100	Foundations of Contemporary Psychology	3
28-200	Foundations of Contemporary Psychology	3
28-321	Adolescent Psychology	3
or		
28-330	Introduction to Social Psychology	3
or		
28-350	Conceptual Framework of Abnormal Psychology	3
62-101	Probation and Parole	3
62-102	Criminal Law and the Offender	3
62-103	Community Relations	3
62-104	Rehabilitation and the Prison	3
62-107	Community Agencies	3
62-108	Crime Causation	3
62-140	Interviewing	3
69-100	Emotional Growth	3
69-200	Emotional Awareness	3
69-300	Skills, Methods, Techniques	3
69-400	Problems of Abnormal Behavior	3

IMPORTANT ENGLISH NOTES

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MERCHANDISING

This programme is designed to prepare graduates to enter the field of merchandising at the selling level, with sufficient background to enable them to advance to supervisory positions. Emphasis of the third semester is on work experience, including 300 to 400 hours of actual employment in a retail outlet. In conjunction with this, seminars will be held at the College.

SEMESTER 1

Course	Descriptive Title	Credit
81-100	Accounting	3
84-120	Marketing	3
86-100	Introduction to Business	3
92-110	Career Communications	3
	Elective	

SEMESTER 2

13-335	Advertising	3
84-100	Retail Merchandising	3
84-210	Dynamic Selling	3
86-120	Business Law	3
	Elective	

SEMESTER 3

84-380	Work-experience preparation	2
84-381	300-400 hrs. work experience	1-10
84-382	Work-experience seminars	3
	Elective	

SEMESTER 4

83-100	Economics	3
84-490	Planning and Supervision	3
86-140	Electronic Data Processing	3
86-210	Personnel Practices	3
	Elective	

Electives may be chosen from any discipline. Examples of options in the business area are:

84-290	Marketing Management	3
86-105	Basic Finance	3
86-110	Introduction to Management	3
86-130	Business Mathematics	3
86-170	Office Equipment	3
86-270	Office Systems	3
86-301	Advertising Seminar	1½
86-310	Industrial Relations	3

VOCATIONAL REHABILITATION COUNSELLING

(For practitioners in the field of rehabilitation)

Douglas College offers a basic certificate for completion of the following four core courses as well as The College Certificate for the completion of the core courses and six additional courses (18 semester hours) at Douglas or another college:

	Credit
69-150 THE VOCATIONAL REHABILITATION PROCESS	3
69-151 MEDICAL ASPECTS OF VOCATIONAL REHABILITATION	3
69-152 VOCATIONAL REHABILITATION COUNSELLING	3
69-153 COMMUNITY RESOURCES AND VOCATIONAL REHABILITATION	3

This program will be given in the evening during the fall and spring semesters, and in daytime during summer sessions for practitioners in the field of vocational rehabilitation.

Summer 1972 (Daytime)	69-150	The Vocational Rehabilitation Process
	69-151	Medical Aspects of Rehabilitation
Fall 1972 (Evenings)	69-152	Vocational Rehabilitation Counselling
	69-153	Community Resources and Vocational Rehabilitation
Spring 1973 (Daytime)	69-152	Vocational Rehabilitation Counselling
Summer 1973 (Daytime)	69-152	Vocational Rehabilitation Counselling
	69-153	Community Resources and Vocational Rehabilitation

Douglas College has been materially assisted in developing this programme by the Vocational Rehabilitation Sub-committee of the British Columbia Panel for the Guidance of the Handicapped.

CREDIT FOR STUDENT PROJECTS

Students may obtain College credit for completion of a project of their own choosing, subject to the curriculum committee's approval. Interested students should contact faculty to discuss preparation of a submission to the committee. Credit for such projects will be on an individual basis.

UNIVERSITY-TRANSFER PROGRAMMES

ART

Transfer Information

Students wishing to continue studies in fine arts at UBC will be asked to submit folios showing type of background acquired. They will then be fitted into UBC's programme on an individual basis.

Students planning transfer to UBC's fine arts department should be aware of the extremely limited intake. Transfer depends on acceptance of student's portfolio and successful completion of the following courses at Douglas:

Douglas College Courses

Art 11-100, 11-110, 11-130, 11-131, 11-140,
11-141, 11-142, 11-161 (any two)

Art 11-120, 11-121

Art 11-200, 11-210, 11-230, 11-260, 11-310,

11-330, 11-400, 11-410, 11-411, 11-430 (any four)

Art 11-221

Art 11-300, 11-311, 11-320

UBC Courses

Fine Arts 181 (3 units)

Fine Arts 125 (3 units)

Fine Arts 281 (6 units)

Fine Arts (1½) unassigned

To be determined

More information on transferability of Douglas courses to UBC may be found in the course description section of this Calendar, under ART.

BIOLOGY

Students intending to transfer to a major or honors programme in biology should take the following courses in first year:

Semester 1

Biology 41-100 or 41-111

Chemistry 42-100 or 42-110

Mathematics 44-120

Physics 45-100 or 45-110

Semester 2

Biology 41-110 or 41-111

Chemistry 42-200 or 42-210

Mathematics 44-220 and 44-131

Physics 45-200 or 45-210

In each semester any two of Literature 91-101 to 91-120; Communications 92-100; Theatre 95-100; Creative Writing 96-100,200.

Biology 110 or 111 may be taken in any order. A student with good standing in Biology 11 or 12 may be exempted from the above two courses with permission of a biology instructor. Exemption will be granted only to those students who take an advanced biology course.

Semester 3

Chemistry 42-320

Semester 4

Chemistry 42-420

Students may take, in any sequence, subject to the courses being offered, Biology 41-320, 321, 322, and 323. A student who has taken all the above, together with enough electives to accumulate 60 semester hours, may transfer to third year at UBC or SFU.

In addition, Biology 41-100 and 41-101 are offered to students requiring two semesters of a laboratory science.

Students who require biology as a prerequisite to a professional school should consult the appropriate calendar or a counsellor.

CHEMISTRY

Students intending to transfer to a major or honors programme in chemistry are required to take the following courses in first year:

Semester 1

Chemistry 42-110

Mathematics 44-120

Physics 45-100 or 45-110

Semester 2

Chemistry 42-210

Mathematics 44-220

Physics 45-200 or 45-210

At UBC, Mathematics 44-131 is required, together with any two of Literature 91-101 to 120; Theatre 95-100; Creative Writing 96-100,200 Communications 92-100; plus six semester hours credit in electives.

At SFU, it should be noted that students who take Physics 45-110,210 are given credit for Physics 201, 202, and 204, all of which are required.

Students may take their third and fourth semesters of Chemistry at Douglas, but since our offerings are of a general nature, the universities have reserved the right to grant honors or major standing on the basis of individual performance, together with a recommendation from the department. The following courses should be taken:

Semester 3

Chemistry 42-310 and 42-320

Mathematics 44-320

Semester 4

Chemistry 42-410 and 42-420

Mathematics 44-420

In 1972-73, it is likely that a student with Chemistry 11 will be able to complete Chemistry 110,210 in three semesters.

DOUGLAS FOUR

Douglas Four — an exploration of the self and the environment — aims to strike a balance between structure and non-structure.

A basic framework is provided, from which perspectives on our culture and its effects on the individual may be gleaned. Topic areas explored include "Urban Environment", "Ecology", "A Comparative and Historical Analysis of our Culture", and "Personal Growth and Awareness." A syllabus of required and suggested readings, and a film series, will be presented. Changes in the latter can be effected by group consensus and initiative. Thus, a structured, central core of information will be experienced by everyone, providing a basis from which the group and its members may further explore the main theme and topic area under consideration.

Students are expected to take the initiative in structuring academic pursuits, community projects, etc., to meet the curriculum requirements. The main theme was purposely designed to encompass individual interests and objectives.

Enrollment in **Douglas Four** is contingent on an interview. It offers 12 semester hours of general credit which is transferable to SFU. Transferability to UBC is expected shortly.

GEOLOGY

Geology is the study of the evolution of planet earth. Considered are the origins and evolution of rocks and minerals, oceans, atmosphere and life, and their interactions.

Beginning students should enroll in Geology 43-100: "Discover the Earth." This is a core course to introduce the student to geology. The student has the option of considering this course terminal (equivalent of Geography 211-3 at SFU or 1½ unassigned geology credits at UBC). During the second semester the student may take a single-semester biology course (advisable for potential elementary or primary school teachers), or the second-semester Geology 43-210: "Our Changing Earth." The sequence 43-100 and 43-210 is the equivalent of Geology 105 at UBC.

Students planning to either major in geology or enter the honors programme in geology at UBC should take the following courses. In Physics and Chemistry, the 110 series is preferable:

Semester 1

Physics 45-100 or 45-110

Chemistry 42-100 or 42-110

Mathematics 44-120

Geology 43-100 or 43-110

Semester 2

Physics 45-200 or 45-210

Chemistry 45-200 or 42-210

Mathematics 44-220 and 44-131

Geology 43-210

During both semesters, any two of Communications 92-100; Literature 91-101 to 120; Theatre 95-100; Creative Writing 96-100,200.

Specialisation begins in geology at the second-year level. Once you have decided to take a course in geology, you are advised to enroll for your second year in the institution where you plan to obtain your degree. The small number of students planning further studies in geology at Douglas does not warrant teaching a complete second-year programme at this time.

MATHEMATICS

Many university departments require credits in mathematics at the first or second-year level for admission to certain upper division courses. Students are therefore urged to consult the appropriate calendars to learn about specific mathematics requirements.

Students entering Douglas may pursue several possible routes, depending on their background and major field of interest:

- 1) Students with B.C. Mathematics 12 who wish to enter UBC to take mathematics, science, secondary education, applied science, or forestry, should take:

Semester 1

Semester 2

44-120

44-220 and 44-131

Some schools, such as commerce, medicine, dentistry, and nursing, require *either* Mathematics 44-112 and 44-212 *or* Mathematics 44-120, 44-220 and 44-131.

Mathematics or science majors should continue as follows:

Semester 3

Semester 4

44-320 and 44-231

44-420 and 44-331

These courses also satisfy prerequisites at SFU and UVic.

SFU offers a one-semester calculus course, Mathematics 150-3, which is required in some social sciences and biology.

- 2) Students with B.C. Mathematics 11 who require the above courses should take Mathematics 44-112, which is a prerequisite to the calculus (Math 44-120).

- 3) Students with less than B.C. Mathematics 11 should consider enrolling in Mathematics 44-101.

- 4) Students transferring to the Faculty of Commerce and Business Administration at UBC should, in addition to the courses listed in paragraph 1, take the following courses:

Semester 3

Semester 4

Mathematics 44-350

Mathematics 44-450

MUSIC

Douglas College provides part of the training for students intending to become school music teachers. There are two routes:

For music majors, a full-time music programme is designed for transfer to music departments of various Canadian universities after two years at Douglas. The B.Mus. degree is completed at university and may be followed by faculty of education teacher training. At present, students are accepted as majors in band, chorus, and string orchestra.

Admission requirements are:

Wind instruments, percussion, and strings: grade 6 R.C.M.T. or equivalent level.

Vocal: grade 6 R.C.M.T. or equivalent level in voice. Pianists may be accepted as choral majors on establishing competence of minimum grade 6-level piano.

For music education majors, students not wishing to study in the B.Mus. programme are encouraged to consider enrolling in the B.Ed. pattern. This is particularly suitable for those intending to teach music in elementary schools. There are no prerequisites for admission. Ability to read music is an advantage but is not necessary. On completion of the two-year programme, students are eligible for transfer to a faculty of education which provides music education.

Teachers already employed but lacking complete coverage of courses required for the B.Ed. (music education major), are invited to consider enrolling as part-time students.

The College plans to offer evening courses in the B. Ed. pattern.

Suggested Programme for Music Majors

SEMESTER 1

Course	Title	Credit	Equivalent UBC Course
12-105	Ensemble — Band	1	
or			
12-106	College Chorus	1	Large Ensemble (½ unit)
12-110	Theory of Western Music	3	Music 100 (1½ units)
12-120	History of Western Music	3	Music 120 (1 unit)
12-130	Class Woodwinds	2	
or			
12-131	Class Brass	2	Music 142 (1 unit)
12-140	Piano (Secondary)	1	Music 144 (½ unit)
12-150	Music Concentration (Instrumental)	2	Music 145 (1 unit)
or			
12-151	Music Concentration (Vocal)	2	
	Elective in English	3	English 100 (1½ units)
	Elective in Arts	3	

SEMESTER 2

12-130	Class Woodwinds	2	
or			
12-131	Class Brass	2	
12-205	Ensemble — Band	1	
or			
12-206	College Chorus	1	Large Ensemble (½ unit)
12-210	Theory of Western Music	3	Music 100 (1½ units)
12-220	History of Western Music	3	Music 120 (1½ units)
12-240	Piano (Secondary)	1	Music 144 (½ unit)
12-250	Music Concentration (Instrumental)	2	
or			
12-251	Music Concentration (Vocal)	2	Music 145 (1 unit)
	Elective in English	3	
	Elective in Arts	3	

SEMESTER 3

12-132	Class Percussion	2	Music 141 (1½ units)
or			
12-230	Advanced Class Woodwinds	2	Music 142 (1 unit)
12-305	Ensemble — Band	1	
or			
12-306	College Chorus	1	Large Ensemble (½ unit)
12-310	Theory of Western Music	3	Music 200 (1½ units)
12-320	History of Western Music	3	Music 320 (1½ units)
12-340	Piano (Secondary)	1	Music 244 (½ unit)
12-350	Music Concentration (Instrumental)	2	
or			
12-351	Music Concentration (Vocal)	2	Music 245 (1 unit)
	Elective in English	3	English 200 (1½ units)
	Elective in Arts	3	

SEMESTER 4

12-132	Class Percussion	2	Music 141 (1½ units)
or			
12-230	Advanced Class Woodwinds	2	Music 142 (1 unit)
12-405	Ensemble — Band	1	
or			
12-406	College Chorus	1	Large Ensemble (½ unit)
12-410	Theory of Western Music	3	Music 200 (1½ units)
12-420	History of Western Music	3	Music 320 (1½ units)
12-440	Piano (Secondary)	1	Music 244 (½ unit)
12-450	Music Concentration (Instrumental)	2	
or			
12-451	Music Concentration (Vocal)	2	Music 245 (1 unit)
	Elective in English	3	English 200
	Elective in Arts	3	

Suggested Programme for Music Education Majors

Course	Descriptive Title	Credit	Equivalent UBC Course
Music 12-100	Basic Theory	3	Music Ed. 101
Music 12-200	Basic Harmony	3	
Music 12-300	Intermediate Harmony	3	Mus. Ed. 210
Music 12-400	Advanced Harmony	3	
Music 12-130	Class Woodwinds	2	Music 142 (2 units)
Music 12-131	Class Brass	2	Music 141 (2 units)
Music 12-132	Class Percussion	2	
Music 12-230	Advanced Class Woodwinds	2	
Music 12-320	History of Western Music	3	Music 320 (3 units)
Music 12-420	History of Western Music	3	

Music education majors should spread music courses over two years, paying special attention to requirements of B.Ed. transfer students at the appropriate university. Students transferring to elementary education at UBC must transfer after *one* year at Douglas.

Counselling, Auditions, and Theory Tests

Music majors are required to make appointments well in advance of registration (phone 521-4851, local 36). Auditions will be held during the latter half of May and July.

Music education majors are not required to audition but must make appointments for counselling, preferably during May.

Because SFU does not have a department of fine or performing arts, no transferability has been arranged for any of the Douglas courses.

PHYSICS

Students wishing to either major or honor in physics are advised to consult the recent calendar of the university which they plan to attend after leaving Douglas to determine the exact prerequisites for physics, mathematics, and chemistry.

For either a major or an honor in physics, courses selected during the first and second semesters should include:

Physics 45-100 and 45-200 **or** Physics 45-110 and 45-210
Chemistry 42-100 and 42-200 **or** Chemistry 42-110 and 42-210
Mathematics 44-120, 44-220 and 44-131

In the third and fourth semester, the selected courses should include:

Physics 45-320, 45-321, 45-420, and 45-421
Mathematics 44-320, 44-420, 44-231, and 44-331

Those intending to honor in physics at UBC are advised to transfer after completing two semesters at Douglas. Those intending to go to SFU can complete their first two years at Douglas with the exception of a one-semester course: SFU Physics 206-2, Thermodynamics, and Modern Physics.

PHYSICAL EDUCATION

Douglas College offers a two-year university-transfer programme which prepares students for entry into third year of the Bachelor of Physical Education and Bachelor of Education (secondary) programmes at UBC. Students wishing to transfer into a Bachelor of Recreational Education programme, or Bachelor of Education (elementary) programme at university, should transfer after one year at Douglas.

Students planning to apply for transfer to UBC should observe the following regulations:

- 1) Students applying for admission to the B.R.E. programme may present a maximum of four semester hours of credit in physical education activities;
- 2) Students in either B.P.E. or B.Ed. (P.E. major) may present a maximum of 19 semester hours of credit in physical education courses if taken over four semesters;
- 3) Students planning to take only two semesters should select the courses to conform as closely as possible to requirements as indicated in the UBC calendar for the first year.

SFU offers a degree programme in kinestology but not in physical education or recreation.

Course requirements for these programmes at Douglas are indicated. The numbers indicate the semester(s) in which the course listed at the left should be taken.

NOTES:

- 1) First and second-semester English requirements for B.P.E., B.R.E., and B. Ed. are: any two of communication 92-100, Creative Writing 96-100, 96-200, Literature 91-101 to 91-120, Theatre 95-100.
- 2) Third and fourth-semester English requirements for B.P.E. (Option A) and B. Ed. (secondary) programme: any two of Literature 91-314, 315, 316, 317, 319.
- 3) Physical Education 64-113 must be included unless written permission to substitute another course has been obtained from the School of Physical Education at UBC.
- 4) First and second-semester physical education activity course requirements for B. Ed. (elementary); four courses from 64-113, 64-119 or 64-120, 64-118; one from 64-112, 64-114, 64-115, 64-121 or 64-122; one from 64-110, 64-111, 64-116 or 64-210.
- 5) Required activity courses for all students in the B. Ed. (secondary) programme; 64-113, 64-118, 64-119 or 64-120; one of 64-111 or 64-116; one of 64-112, 64-114, 64-115 or 64-121.
- 6) Required activity courses for all students in the B.P.E. programme; 64-110, 64-113, 64-117, 64-118, 64-119 or 64-120; one of 64-111 or 64-116; one of 64-112, 64-114, 64-115, 64-121 or 64-122.
- 7) Students in the B.P.E. programme must select a second area of concentration consisting of a minimum of 12 semester hours of credit from either the Faculty of Arts or the Faculty of Science at UBC or equivalent Douglas College courses.
- 8) First and second-semester electives for the B.R.E. programme: Sociology 23-125 and 23-135; or any two courses transferable to UBC.

Required in

SEMESTER

	Credit	B.P.E. Option A	B.B.F. Option B	B.R.E.	B. Ed. (Sec)	B. Ed. (Elem)
Art 11-120 and 11-121	6			1-2		
Biology 41-110 and 41-111	6	1-2	3-4	1-2		
Chemistry 42-100 or 42-110 and 42-200 or 42-210	6		1-2			
Chemistry 42-320 or Psychology 28-300	3		3			
Chemistry 42-420 or Psychology 28-400	3		4			
First-level English (see Note 1)	6	1-2	1-2	1-2	1-2	1-2
Second-level English (see Note 2)	6	3-4			3-4	
Mathematics 44-120	3		1			
Mathematics 44-131 and 44-220	5		2			
Music 12-100 or 12-320, or any course from arts or science	3					1
Music 12-200 or 12-420, or any course from arts or science	3					2
2 P.E. activities (see Note 3)	4		1-2			
4 P.E. activities (see Note 4)	8					1-2
6 P.E. activities (see Note 5)	12				1-2	
8 P.E. activities (see Note 6)	16	1-2	1-2		3-4	
P.E. 64-350	3	3-4	3-4			
P.E. 64-360	3	4	4		4	
Physics 45-100 or 45-110 and Psychology 28-100	6		1-3		3	
Physics 45-200 or 45-210 and Psychology 28-200	6		2-4			
Psychology 28-100 and 28-200	6	3-4		1-2		
4 electives from arts or science	12	1-2				
1 elective from arts or science	3		4			
2 electives from lab sciences	6					1-2
2 electives from history, geography, or social science	6					1-2
4 electives (see Note 7)	12	3-4				
2 electives (see Note 8)	6			1-2		
Electives and courses required for second academic concentration	18				1-2	
Electives and courses required for second academic concentration	12				3-4	

PHYSICAL EDUCATION SERVICE PROGRAMME

The popularity of many activity courses at Douglas has prompted expansion into the area of voluntary service courses. All students (part-time and full-time) are eligible to enroll in any one or more of these courses, which emphasise personal rather than professional development.

Classes meet for three hours weekly, and each course carries one semester hour of credit. The three hours are devoted mainly to practical work. These courses are presently non-transferable, but will give credit toward the College diploma.

These service courses are numbered 64-130 to 64-150.

PROFESSIONAL SCHOOLS

Training in a number of professional areas is offered at the various universities, in some cases at the graduate level. Students interested in specific professions should study the calendar of the appropriate university.

Both UBC and SFU offer programmes in education and commerce. UBC has professional training in: physical education, recreation, fine arts (art, music, theatre), agriculture, applied science, engineering, architecture, dentistry, dental hygiene, forestry, home economics, law, librarianship, medicine, rehabilitation medicine, nursing, pharmacy, and social work.

DOUGLAS COLLEGE INSTITUTES

The Institutes at Douglas provide a means of co-ordinating the resources of faculty, students, and the college community into both structured and non-structured programmes. These contribute to a better understanding of crucial problem areas often excluded from the formal disciplines.

The two most important problem areas confronting mankind today are the environment and international relations. There are numerous links between the two, since population growth, pollution, and conservation are international problems; and because the deep-seated causes of conflict and war are frequently, indeed usually, matters of territory and resources.

It is not enough to simply touch on these problem areas in the course of traditional studies. We must bring them into proper focus, stress them, and above all insist that whenever possible our work in Douglas is sufficiently practical to be of value to the college community.

Thus, the activities of the Institutes are open to all. In addition, by using the communications media, field study centres open to the public, and programmes designed as a community service for casual visitors to the campuses, the Institutes reach out to a wide public.

The Institutes and the Individual

If the individual is to participate fully in a democracy he must be able to acquire knowledge relevant to the decisions he should make in public affairs. He must also require the means of exercising judgment. Furthermore, he must be able to contribute to the efforts of society to deal with urgent problems such as those now confronting all of us, both environmentally and in our relationships with others.

Since curricula do not change as rapidly as does the world around them, educational institutions often lack flexibility and become remote from real life. Douglas College Institutes offer the means of linking disciplines and routine courses of formal study to reality. For example, research conducted in courses could be directed toward actual problems in the society and environment of the College community; assignments written or data compiled by such research could be made available to public and private institutions capable of using them for practical ends.

The Institutes as Co-ordinators of Community Resources

The increasing costs of education make essential the development of a greater co-ordination of land, capital, and human resources. The multiple-campus college has an opportunity to locate and develop some of its facilities to serve regional social, educational, and recreational needs. Thus, an environmental study centre can be developed, as an integral part of the College, on public land such as a regional park, thereby providing facilities not only for college students, but for all school grades and members of the public.

THE INSTITUTE OF ENVIRONMENTAL STUDIES

Ald. J. C. Murray,
Township of Richmond

Dr. Barry A. Leach,
Institute Director

Ald. Bernard J. Moore,
Corporation of Delta

Mrs. Pat Fletcher,
Richmond Campus

Ald. J. W. (Jack) Gilmore,
District of Coquitlam

Mr. Bob Berger,
Surrey Campus

Mayor George Preston,
Township of Langley

Mr. Nick Mansfield,
New Westminster Campus

Mayor W. Vander Zalm,
Municipality of Surrey

Miss Leigh Harrington,
Student Representative

Courses

The Institute is co-ordinating the following special courses:

- Instructors' course for the provincial hunter training programme;
- Outdoor training. This meets requirements of the hunter training programme;
- Outdoor survival. Designed for industrial forestry survey crews in wilderness areas;
- Outdoor education. Two, two-week summer sessions for teachers on practical aspects of outdoor education. Evening and weekend versions will also be offered.

Programmes

Each semester the Institute sponsors film and lecture programmes on the environment.

Information Booklets

Edited collections of documents and articles not readily available from other sources are available to College libraries, faculty, and students. The public and institutions may also obtain copies for a small charge to cover printing costs. Topics focus on environmental problems in the lower mainland.

"Serpentine Fen" — Environmental Study Centre

The Institute has obtained the use of half a 240-acre farm in South Surrey under a five-year agreement with the provincial Fish and Wildlife Branch. The other half is being developed by Ducks Unlimited (Canada) as a Canada Goose Farm. The College is developing its area as a farm and wildlife management project. Students from schools, the College, BCIT, and the universities may use the area for observations, studies, experiments, and field work. In addition to agricultural and wildlife management projects, the Institute provides accommodation for a warden, a building containing displays of environmental and ecological information, and a small field laboratory.

THE INSTITUTE OF INTERNATIONAL STUDIES

If the College is to remain relevant to the community's needs, it must be capable of swift response to the community's need for information on international affairs. It must offer an opportunity for discussion of the implications of events with an understanding of the political, strategic, economic, and social factors involved. In some cases, better understanding can lead to action through United Nations institutions, philanthropic organisations (Oxfam, etc.), or educational institutions — especially since an international college may soon be developed on Vancouver Island, and a world university sponsored by the United Nations may be built in Toronto.

Programmes

Each semester the Institute sponsors a number of lectures on international topics. These are available to both students and general public.

CONTINUING EDUCATION PROGRAMMES

Continuing Education programmes make Douglas College available to the adult community in our College Region. They are designed to be appropriate, convenient, and attractive to the part-time mature student.

College Credit Programmes

These lead to certificates and diplomas in the career and university-transfer fields on a part-time basis. All Douglas programmes are available to the part-time student, most of them being available day and evening, on and off campus. Telephone the office of the Director of Continuing Education for detailed information.

Community, Public Affairs, and Special-Interest Programmes

These are developed with the assistance of organisations, groups, and individuals, and are offered in co-operation with school district adult education departments in our College Region. Contact the office of the Dean of Continuing Education for current information.

Availability of Courses and Tailored Programmes

Douglas courses and special variations of the curriculum are available on request to groups and businesses, on or off campus. Telephone the office of the Dean of Continuing Education for information.

Availability of Student Services

All services are available to daytime and evening students.

Course Descriptions

ACCOUNTING

81-100 Introduction to Accounting

3 sem. hrs.

A practical examination of current recording and reporting practices in business transactions, combined with payroll and handling of charge accounts. Accounting reports analysed to provide insight into the condition of a business.

Prerequisite: Nil
Lecture: 3 Seminar: 1
No transfer credit

81-110 Principles of Accounting

3 sem. hrs.

Theory and practice of recording and reporting financial events for service and merchandising businesses, with legal distinctions between proprietorship and limited companies.

Prerequisite: Nil
Lecture: 3 Seminar: 1
Transferability:
With 81-210
UBC Commerce 151 and 1½ units unassigned credit in Accounting
SFU 323-5 and 1 unassigned credit in Accounting
CGA 101
SIA Principles of Accounting

81-210 Principles of Accounting

3 sem. hrs.

Theory and practice of appraising business events in light of previous plans, and safeguarding rights and possessions of a business by means of the accounting process. Analysis of financial statements and an appraisal of some basic accounting theory, with a brief consideration of the manufacturing process.

Prerequisite: 81-110
Lecture: 3 Laboratory: 1
Transferability:
With 81-110
UBC Commerce 151 + 1½ units unassigned credit in Accounting
SFU 323 and 1 unassigned credit in Accounting
CGA 101
SIA Principles of Accounting

81-240 Electronic Data Processing (Accounting)

3 sem. hrs.

Basic data processing principles in the business environment, with emphasis on accounting. Introduction to the computer and its features. Course uses COBOL programming language and flow chart methods in problem-solving.

Prerequisite: 81-110 and current enrollment in 81-210
Lecture: 4
Transferability:
With 81-440
CGA 205
SIA Data Processing Equipment and Programming

81-310 Accounting Theory

3 sem. hrs.

The more complex accounting techniques and principles at the intermediate level relating to determination of the financial position of a business.

Prerequisite: 81-410
Lecture: 4
Transferability:
With 81-210
CGA 221
SIA Accounting Theory and Problems

81-320 Cost Accounting

3 sem. hrs.

Principles and practice of essential records and methods of arriving at materials, labor, and manufacturing expense costing. Job, process, and standard costing. Budgeting, distribution, and differential costing.

Prerequisite: 81-210
Lecture: 4
Transferability:
With 81-420
CGA 311
SIA Accounting for Cost Determination Analysis and Control

81-410 Accounting Theory

3 sem. hrs.

The more complex accounting techniques and principles at the level relating to measurement of net income.

Prerequisite: 81-310
Lecture: 4
Transferability:
With 81-310
CGA 221
SIA: Accounting Theory and Problems

81-420 Cost Accounting

3 sem. hrs.

Commercial company financing, with special reference to ratios of assets to liabilities and income to expenses. Credit management. Sources and costs of capital.

Prerequisite: 81-320
Lecture: 4
Transferability:
With 81-320
SIA Accounting for Cost Determination and Decision-Making

81-440 Information Systems (Accounting)

3 sem. hrs.

The application of data processing principles in business, with emphasis on accounting applications. Various systems involving magnetic tape and disk storage devices examined. Introduction to controls and data processing management.

Prerequisite: 81-240
Lecture: 4
Transferability:
With 81-240
CGA 105
SIA Data Processing Equipment and Programming

ANTHROPOLOGY

24-100 Social and Cultural Anthropology

3 sem. hrs.

Basic concepts, man and culture, race, institutions.

Prerequisite: Nil
Lecture: 2 Seminar: 2
Transferability:
UBC with 24-110 Anthropology 200 (3 units)
SFU PSA 172 (3 credits)

24-110 Physical Anthropology and Archaeology

3 sem. hrs.

An introduction to aims, methods, and discoveries of physical anthropology and archaeology through a study of human evolution and the development of cultures and institutions.

Prerequisite: Nil
Lecture: 2 Tutorial: 1
Transferability:
UBC with 24-100 Anthropology 200 (3 units)
SFU Archaeology 272-3 (3 credits)

24-120 The Indians of B.C.

3 sem. hrs.

A study of the native inhabitants of B.C. from the time of historic contact. Emphasis placed on the traditional society, particularly its art form, and on certain problems of contemporary Indian society.

Prerequisite: Nil
Lecture: 2 Seminar: 2
Transferability:
UBC 1½ units unassigned credit in Anthropology
SFU 3 unassigned credits in Anthropology

24-130 The Anthropology of Religion

3 sem. hrs.

An introduction to a comparative study of religious institutions, focusing on selected ethnographic examples. The role of religion in society and various anthropological approaches to the study of religion considered.

Prerequisite: Nil
Lecture: 2 Seminar: 2
Transferability:
UBC 1½ units unassigned credit in Anthropology
SFU 3 unassigned credits in PSA

24-190 Archaeological Field Studies

3 sem. hrs.

A field course in archaeology, normally offered in summer. Emphasis on techniques of archaeological excavation, but some time devoted to archaeological theory and the broad pattern of B.C. prehistory.

Prerequisite: Nil
Lecture:
35 hours (for approximately six weeks)
Field experience 35 hours (for approximately six weeks)
Transferability:
UBC 1½ units unassigned credit in Anthropology
SFU 3 unassigned credits in Anthropology

24-200 Culture and the Environment

3 sem. hrs.

An ecological approach to social organisation and structure. Influence of the environment on kinship and religious, political, and economic systems.

Prerequisite: Nil
Lecture: 1x2 Tutorial 1x2
Transferability:
UBC 1½ units unassigned credit in Anthropology
SFU 3 unassigned credits in Anthropology

ART

Students planning transfer to second or third year of art education programme should prepare art portfolios in ceramics, painting, drawing, printmaking, and design for adjudication by Art Education faculty committee.

Transfer credits for above UBC courses are granted only if student's art work is judged above average.

Students planning transfer to UBC's fine arts department should be aware of the extremely limited intake. Transfer depends on acceptance of student's portfolio and successful completion of the following courses at Douglas:

11-200 Basic Drawing**3 sem. hrs.**

Course provides opportunity for further experiment in drawing in all common media, both wet and dry. Includes object drawing, life drawing, and a further study of basic human anatomy.

Prerequisite: 11-100
Laboratory: 6

11-120 Basic Painting**3 sem. hrs.**

Further exploration of all common media, including gouache, oil and acrylic paint and various grounds. Student is enabled to expand his knowledge of pictorial composition.

Prerequisite: 11-110
Laboratory: 6

11-220 The Changing Face of Western Art — From 1900 to 1945**3 sem. hrs.**

20th-century art forms examined, with special reference to principal movements and their exponents.

Prerequisite: Nil
Lecture: 4
No transfer credit

11-221 20th-Century Western Art**3 sem. hrs.**

Provides broad general knowledge and understanding of the history of art as seen through artistic production.

Prerequisite: 11 - 130
Lecture: 3

11-230 Ceramics**1 sem. hr.**

Clay is further explored as an expressive medium for utilitarian and decorative ends. More defined techniques of hand construction and wheelwork covered as applicable, also are glazing and decorating procedures.

Prerequisite: 11-121
Lecture: ½ Laboratory: 2½

11-250 Design and Model Making**1 sem. hr.**

The student gains experience using essential technical skills necessary for working in a number of design and fine arts fields. He is introduced to design analysis and planned stage development; he resolves and lays out a design prior to fabrication, and works with certain materials on projects which develop his design appreciation and crafting skills. Three-dimensional design is introduced.

Prerequisite: 11-150
Lecture: ½ Laboratory: 2½
No transfer credit

11-260 Fundamental Color Design Theory**1 sem. hr.**

Students learn common and useful color theories by emphasising controlled application, color identification, and color characteristics.

Prerequisite: 11-160
Lecture: 1 Laboratory: 2

11-261 Foundations of Design**3 sem. hrs.**

Course is concerned with further rediscovery and development of capacities for constant lively perception through study and use of the visual structure of objects and materials; also the application of design principles applied to them.

Prerequisite: 11-161
Laboratory: 5
Lecture: 1
No transfer credit

11-300 Intermediate Drawing**3 sem. hrs.**

A further experiment in drawing in all common media, both wet and dry. Course includes object drawing, life drawing, and continued study of basic human anatomy.

Prerequisite: 11-200
Laboratory: 2x3

11-310 Intermediate Painting**3 sem. hrs.**

A further exploration of all common media, including gouache, oil and acrylic paint on various grounds. Enables student to expand his knowledge of pictorial composition.

Prerequisite: 11-210 Laboratory: 6

11-311 Explorations in Contemporary Media**3 sem. hrs.**

Creative media in use today, with an examination of two and three-dimensional forms through use of materials.

Prerequisite: Nil
Laboratory: 6
No transfer credit

11-320 20th-Century Western Art**3 sem. hrs.**

A look at some rapidly-changing 20th-century art forms, with special reference to principal movements and their exponents.

Prerequisite: 11-120 or 11-220
Lecture: 4
No transfer credit

11-330 Intermediate Ceramic Techniques**2 sem. hrs.**

A continuation of the exploration of ceramic techniques, materials, and design in greater depth.

Prerequisite: 11-230
Lecture; ½ Laboratory: 2½

11-400 Advanced Drawing**3 sem. hrs.**

A further experience in drawing in all common media, both wet and dry. Includes object drawing, life drawing, and continued study of basic human anatomy.

Prerequisite: 11-300
Laboratory: 6

11-410 Advanced Painting**3 sem. hrs.**

Further exploration of all common media, including gouache, oil and acrylic paint on various grounds. Enables student to expand his knowledge of pictorial composition.

Prerequisite: 11-310
Laboratory: 6

11-411 Explorations in Contemporary Media**3 sem. hrs.**

Creative media in use today, with an examination of two and three-dimensional forms through use of these materials.

Prerequisite: 11-311
Laboratory: 6

11-430 Advanced Ceramics**2 sem. hrs.**

A continuation of the exploration of ceramic techniques, materials, and design in greater depth.

Prerequisite: 11-330
Lecture: ½ hr. Laboratory: 2½ hrs.

BIOLOGY

The biology laboratory is operated on an open audio-tutorial system. Students taking a biology course should plan to spend four hours a week in the laboratory, but not necessarily at the one time. The student can spend one hour at a time in the laboratory to complete his requirement. When time-tabling, he should see that this time is made available.

41-100 Contemporary Problems in Biology: The Environmental Crisis**3 sem. hrs.**

A study of biological problems arising from the interaction of man with his environment.

Prerequisite: Nil
Laboratory: 4 Seminar: 2
Transferability:
UBC Biology 311 1½ units (not for credit in Life Science departments)
SFU Biology 003

41-101 Great Experiments in Biology**3 sem. hrs.**

An examination of the conditions of the science at the time of discovery, and the impact of discoveries on biological study. Designed for non-Life Science majors and for those wishing to complete a lab science requirement in biology.

Prerequisite: Nil
Laboratory: 4 Seminar: 2
Transferability:
UBC 1½ units unassigned credit in Biology (not for credit in Life Science)
SFU 3 unassigned credits in Biology

41-110 The Biosphere**3 sem. hrs.**

A study of life, from the interaction of living organisms with one another and their physical environment to the anatomy and physiology of the individual.

Prerequisite: Nil
Lecture: 1 Laboratory: 4 Seminar: 2
Transferability:
UBC with 41-111 Biology 101 or 102
SFU Biology 102

41-111 Principles of Biology: The Organism**3 sem. hrs.**

A study of life, from the development of individual organisms to the structure and function of the cell.

Prerequisite: Nil
Laboratory: 4 Seminar: 2
Transferability:
UBC with 41-110 Biology 101 or 102
SFU Biology 101

41-320 Genetics**3 sem. hrs.**

The principles of heredity: transmission, exchange, mutation, and functioning of genetic material.

Prerequisite: 41-100 and 41-111, or permission of instructor
Lecture: 1 Laboratory: 4 Seminar: 2
Transferability:
UBC Biology 334
SFU Biology 202

41-321 Cell Biology**3 sem. hrs.**

A study of the ultrastructure and biochemistry of the cell.

Prerequisite: 41-110 and 41-111, or permission of instructor

Lecture: 1 Laboratory: 4 Seminar: 2
Transferability:
UBC Biology 200
SFU Biology 201

41-322 Ecology**3 sem. hrs.**

A study of the interactions of organisms and their environment.

Prerequisite: 41-110 and 41-111, or permission of instructor
Lecture: Laboratory: 4 Seminar: 2
Transferability:
UBC 1½ units unassigned credit in Biology
SFU Biology 204

ART continued**Douglas College Courses**

Art 11-100, 11-110, 11-130, 11-140, 11-141, 11-142, 11-161 (any two)

Art 11-200, 11-210, 11-230, 11-260, 11-300, 11-311, 11-330, 11-400, 11-410, 11-411, 11-430 (any four)

Art 11-221
Art 11-320

UBC Courses

Fine Arts 181 (3 units)

Fine Arts 281 (3 units)
Fine Arts (1½) unassigned
Fine Arts (1½) unassigned

Since SFU does not have a department of fine arts, no transferability has been arranged for any of the Douglas courses.

11-100 Fundamental Drawing**3 sem. hrs.**

An introduction to drawing in all common media, both wet and dry. Includes still-life drawing and basic human anatomy, and is a requirement of all first-year students in the art transfer and painting or craft diploma programmes. It is a prerequisite for other courses in drawing and painting. May be taken as an elective.

Prerequisite: Nil
Laboratory: 6

11-101 Fundamental Figure Drawing**1½ sem. hrs.**

An introduction to drawing the figure in all wet and dry media.

Prerequisite: Nil
Laboratory: 3

11-102 Fundamentals of Still-life Drawing**1½ sem. hrs.**

An introduction to drawing inanimate objects and landscapes, using a variety of wet and dry media.

Prerequisite: Nil
Laboratory: 3

11-110 Fundamental Painting**3 sem. hrs.**

An introduction to basic media and methods, including water color, gouache, oil and acrylic paint; and various grounds such as canvas, board, paper, etc. Students also introduced to pictorial composition. Course required of all first-year students in art transfer and painting or craft diploma programmes, and is a prerequisite for sequential painting courses.

Prerequisite or Corequisite: 11-100
Laboratory: 6

11-113 Watercolor, Transparent and Opaque**1 sem. hr.**

An introduction to basic techniques in opaque and transparent water colors. Students also introduced to pictorial composition.

Prerequisite: Nil
Lecture: Nil
Laboratory: 3

11-114 Acrylics, The Plastic Paint**1 sem. hr.**

An introduction to techniques in the acrylic polymer medium. Students also introduced to pictorial composition.

Prerequisites: Nil
Laboratory: 3

11-115 The Medium of Oils**1 sem. hr.**

An introduction to oil painting techniques and pictorial composition.

Prerequisite: Nil
Laboratory: 3

11-120 History of Western Art to 17th Century**3 sem. hrs.**

Provides broad general knowledge and understanding of the history of man as seen through his artistic production from cave art to the Renaissance. Course is required of all first-year students in art transfer, diploma, commercial, fashion, and interior design courses.

Prerequisite: Nil
Lecture: 3

11-121 History of Western Art: 17th to 20th Centuries**3 sem. hrs.**

Provides broad general knowledge and understanding of the history of art as seen through artistic production.

Prerequisite: Nil
Lecture: 3

11-123 Art History — 1945 to Present**3 sem. hrs.**

The changing art forms since 1945, with special reference to principal movements and their exponents.

Prerequisite: Nil
Lecture: 4

11-130 Ceramics and Ceramic Sculpture**2 sem. hrs.**

Clay explored as an expressive medium for utilitarian and decorative ends. Familiarisation with studio tools and equipment, their use and care. Techniques of hand construction and wheelwork applicable to sculpture and pottery, as well as various glazing and decorating methods, are covered. Assignments directed to individual and class needs. Philosophic enquiries made into the inter-relationship of esthetics and function, and the implication of this art experience in terms of our contemporary world. Some assigned reading.

Prerequisite: Nil
Lecture: ½ Laboratory: 2½

11-131 Figure Sculpture**3 sem. hrs.**

Use of various sculpture media (including clay and plaster) explored to provide student with skills and insights in conception and creation of three-dimensional art.

Prerequisite: Nil
Laboratory: 1x2, 1x3
Lecture: 1

11-134 Glaze Calculation**2 sem. hrs**

Use of empirical atomic theory in the calculation of ceramic glazes. Many types of glazes developed at a variety of temperature ranges.

Prerequisite: Nil
Laboratory: 2
Lecture: 1
Transfer: Not applied for

11-140 Relief Printmaking**1 sem. hr.**

Printmaking explored as an expressive medium, commencing with an introduction to materials, studio, tools, and equipment. Some techniques of relief printing. Assignments directed to individual and class needs.

Prerequisite: Nil
Lecture: ½ Laboratory: 2½

11-141 Art-Silk Screen Techniques**1 sem. hr.**

Silk screen explored as an expressive medium, commencing with tools and equipment. Basic and intermediate techniques covered by assignments directed to individual and class needs.

Prerequisite: Nil
Laboratory: 3x1

11-142 Intaglio Printmaking**1 sem. hr.**

Explores the area of metal plate printing and techniques in drypoint, engraving, and etching. Use of specialized equipment covered throughout term. Assignments directed to individual and class needs.

Prerequisite: Nil
Laboratory: 3

11-150 Communication Drawing**2 sem. hrs.**

Course teaches basic essential technical skills which should be mastered to enable one to work in a number of design and fine arts fields. The student becomes experienced in the use of basic drawing instruments to work with precision. He will be better equipped to work out his designs in form and detail, and ultimately to make detailed production drawings. He will be able to lay out designs prior to fabrication when working in three dimensions, and will have at hand a valuable method of communication.

Prerequisite: Nil
Lecture: ½ Laboratory 2½
No transfer credit

11-160 Fundamental Design Theory**2 sem. hrs**

Familiarisation with fundamental principles of design, with emphasis on their controlled application. Materials introduced as elements of design. Assignments made according to individual and class needs. Some assigned reading.

Prerequisite: Nil
Lecture: ½ Laboratory 2½

11-161 Foundations of Design**3 sem. hrs.**

Basic instruction in techniques of composition, using principles of design such as balance, harmony, and basic color use. Designs and projects related to natural forms and shapes. Students relate their work to themselves, their present experiences and environment.

Prerequisite: Nil
Laboratory: 1x5
Lecture: 1x1

11-170 Introduction to Weaving**2 sem. hrs.**

Fundamental forms of weaving with a combination of traditional and contemporary forms of the craft. Student pursues projects and techniques using a variety of simple and basic looms.

Prerequisite: Nil
Laboratory: 2
Lecture: 1
No transfer credit

11-171 Introduction to Fabric Arts**2 sem. hrs.**

Introduces structural techniques such as knotting and felting, and nonstructural or enriching methods such as printing, batik, tie-dyeing, and applique. Emphasis on technique and proper use of equipment.

Prerequisite: Nil
Laboratory: 2
Lecture: 1
No transfer credit

41-323 Developmental Biology**3 sem. hrs.**

A study of the processes of growth and development in plants and animals. Includes life cycles of organisms, processes in early development in plants and animals, regeneration, and the evolutionary aspects of development.

Prerequisite: 41-110 and 41-111, or permission of instructor

Laboratory: 4 Seminar: 2

Transferability:

UBC Zoology 204

SFU Zoology 203

BUSINESS**86-100 Introduction to Business****3 sem. hrs.**

A survey of the Canadian business scene: classification of business organizations and functional structures such as management, administration, personnel, production, marketing. A substantial part of this first-semester course devoted to human relations in business.

Prerequisite: Nil

Lecture: 3 Seminar: 1

No transfer credit

86-105 Basic Business Finance**3 sem. hrs.**

The function of finance in business: management of assets and the need for funds, analysis of past financing and future funding needs, short and long-term fund sources, long-term capital structure, capital budgeting. Emphasis on managerial analysis and decision-making. Course involves student participation of an analytical and evaluative nature.

Prerequisite: 81-100

Lecture: 4

No transfer credit

86-106 Personal and Consumer Finance**3 sem. hrs.**

An introduction to planning and decision-making techniques to serve short and long-term personal financial objectives. Emphasis on budgeting, effective use of credit, insurance, investments, estate planning, and methods of pertinent financial calculations.

Prerequisite: Nil

Lecture: 4

No transfer credit

86-109 Supervisory Management**3 sem. hrs.**

Designed to give first and second-level supervisors in industry, commerce, and social agencies a broader understanding of the theory and practice of fundamentals of supervision, and the supervisor's responsibilities as a leader, implementer of ideas, co-worker, subordinate, and mediator.

Prerequisite: Nil

Lecture: 4

No transfer credit

86-110 Introduction to Management**3 sem. hrs.**

Managerial principles and methods: allocation of priorities to firm's objectives and responsibilities; framing of policy; tasks of planning, organizing, staffing and controlling work of others to achieve objectives. Particular attention given to quantitative methods as managerial tools.

Prerequisite: Credit in three semester hours of business courses, or by permission of instructor

Lecture: 3 Seminar: 1

No transfer credit

86-111 Small-business Management**3 sem. hrs.**

For the individual facing problems of running a business and of filling roles of office manager, stock-keeper, salesman, and personnel manager. Examines day-to-day administration and overall organisation of the business entity (proprietorship, partnership, limited company).

Prerequisite: Nil

Lecture: 4

No transfer credit

86-120 Business Law**3 sem. hrs.**

A general review of the meaning, sources, and administration of commercial law, and a more detailed examination of the law of contract with particular reference to business situations.

Prerequisite: Nil

Lecture: 2x2 Seminar: 2x1

Transferability:

With 86-220

CGA 108

RIA Commercial Law

86-130 Business Mathematics**3 sem. hrs.**

Basic computation and algebra. Mathematics of finance: interest, discounts, annuities, elementary probability theory.

Prerequisite: B.C. Math 12 or equivalent

Lecture: 4

Transferability:

CGA 102

S1A Quantitative Methods with 86-330

86-140 Introduction to Electronic Data Processing**3 sem. hrs.**

Orientation to electronic data processing systems and equipment used in bulk processing of data, including accounting machines, punch card machines, and computers. Some computer language learned.

Prerequisite: Nil

Lecture: 2 Laboratory: 2

No transfer credit

86-170 Office Equipment**3 sem. hrs.**

An introduction to capabilities of the commonly-used adding and calculating machines, cash registers, copiers and duplicating equipment, microfilming, dictating equipment, etc.

Prerequisite: Nil

Lecture: 1 Laboratory: 2

No transfer credit

86-200 Fundamentals of Business**3 sem. hrs.**

An introduction to modern business; basic concepts and techniques of organisation; focus on business problems and situations in extractive, process, manufacturing, and service industries; emphasis on managerial analysis and decision-making. Involves student participation of a research, analytical, and evaluative nature.

Prerequisite: Nil

Lecture: 2 Seminars: 2

Transferability:

UBC Commerce 190

SFU Commerce 203

86-205 Security Analysis and Investment**3 sem. hrs.**

Techniques of security and investment risk analyses, including examination of functions and operations of security markets, their methods of price determination, and essentials of portfolio growth and management.

Prerequisite: 86-105

Lecture: 1x2 Seminar: 1x2

No transfer credit

86-210 Personnel Practices and Administration**3 sem. hrs.**

For students with little or no experience in a supervisory business or industrial setting. Attention directed to problems involved in maintenance of an efficient work force: human behavior in organisations, personnel programming, job analysis and evaluation, wage and salary administration, personnel recruitment and development, evaluation procedures, fringe benefits.

Prerequisite: Nil

Lecture: 4

Transferability:

S1A Organisational Behavior

86-220 Business Law**3 sem. hrs.**

A study of legislation on taxation, labor relations, combines, monopolies, insurance, negotiable instruments, banks and other financial institutions.

Prerequisite: 86-120

Lecture: 4

Transferability:

With 86-120

CGA 108

RIA Commercial Law

86-270 Office Systems**3 sem. hrs.**

An introduction to manual, one-write, keysort, and machine systems covering such applications as billing, sales analysis, accounts receivable, accounts payable, expense distribution, inventory, payroll distribution, and payroll writing. A practice set in one-write form is to be completed by students. Course also provides a brief introduction to inter-relationships of basic functions such as purchasing, receiving, stock-keeping, production, selling, disbursing.

Prerequisite: Nil

Lecture: 3 Laboratory: 1

No transfer credit

86-300 Money and Financial Institutions**3 sem. hrs.**

An introduction to the process of financial intermediation, including the role of money and money substitutes, money supply and creation of credit, functions and practices of chartered banks, non-bank financial institutions and the Bank of Canada, regulation of the banking system, and determination of interest rates.

Prerequisite: 83-100 and second-year standing

Lecture: 4

No transfer credit

86-301 Advertising Seminar**1½ sem. hrs.**

Fundamental principles of advertising practices, media selection, and budgeting. Techniques of writing effective copy, continuity, basic layout, and analysis of advertising programmes.

Prerequisite: Second-year standing

Seminar: 2

No transfer credit

86-310 Industrial Relations**3 sem. hrs.**

A survey of the Canadian labor scene: impact of trade unions on industry and commerce; union objectives; employer organisations and labor unions as institutions; existing labor legislation and trends; collective bargaining and labor-management relations; mediation and arbitration. Course largely directed to current events, particularly in B.C.

Prerequisite: Nil

Lecture: 4

No transfer credit

86-330 Business Statistics**3 sem. hrs.**

An introduction to business statistics, directed to following topics: statistical collection and presentation of data; central tendencies; dispersions; simple regression; correlation; frequency distributions; probability and normal distributions; inference and forecasting; time series. Also, sampling and sampling distributions; quality control; decision-making; estimation; tests of hypotheses; problems of prediction; planning business research; elementary operations research; Monte Carlo method; Chi-square.

Prerequisite: 86-130

Lecture: 2x1 Tutorial: 2x1

Transferability:

CGA 103

S1A Quantitative Methods with 86-130

86-350 Traffic and Transportation**3 sem. hrs.**

A survey course in logistics to give a background of the work and problems involved in distribution of products via road, rail, sea, air, and pipeline routings, with particular reference to B.C. The special role of the traffic-transportation manager emphasised in the context of business management, in which transportation problems are shown as being only a part of the distribution picture, including storage and inventory control.

Prerequisite: Nil
Lecture: 4
No transfer credit

86-360 The Travel Agent**3 sem. hrs.**

Designed for travel agency personnel, those wishing to enter the travel industry, and others in industries connected with travel who wish to enter the broader agency field. Selling techniques and general knowledge stressed.

Prerequisite: Nil
Lecture: 1x3
No transfer credit

86-361 Hotel Front-Office Management**3 sem. hrs.**

Emphasises the organization and psychology necessary in hotel front-office management. Includes functions such as sales, reservations, and credit.

Prerequisite: Nil
Lecture: 1x2 Laboratory: 1x1 Student-directed Learning: 1x1
No transfer credit

86-380 Operations Management**3 sem. hrs.**

The management of production systems, including plant location, layout, materials handling inventory control, work measurement, and inspection.

Prerequisite: Nil
Lecture: 4
No transfer credit

86-402 The Business Profession — Seminar**1½ sem. hrs.**

This seminar course brings students face-to-face with professional businessmen at weekly meetings. Diverse business fields (e.g. forest products, mining, transportation, tourism) and many executive functions (e.g. marketing, finance, sales, personnel) are represented. Professional problems, goals, decision processes and strategies are discussed by practitioners. Strongly recommended for graduating class in business, economics, and commerce transfer programmes.

Prerequisite: Fourth-term standing
Seminar: 2
Transferability: No transfer credit

86-450 Traffic and Transportation Management**3 sem. hrs.**

Deals with managerial problems of transportation in industry. Student assumes role of transportation manager, facing problems of organisation, cost factors, inventory control, industrial relations, and finance. Techniques for determining warehouse locations examined.

Prerequisite: 86-350 (or practical work experience in traffic and transportation)
Lecture: 1x1 Seminar: 1x2 Tutorial: 1x1
No transfer credit

86-460 The Travel Agent**3 sem. hrs.**

A continuation of 86-360
Prerequisite: 86-360
Lecture: 1x3
No transfer credit

CHEMISTRY**42-100 General Chemistry****3 sem. hrs.**

For students with little or no background in chemistry. Includes theory, stoichiometry, energy in matter, reaction rates, and solutions.

Prerequisite: Nil
Lecture: 3 Tutorial: 1 Laboratory: 3
Transferability:
UBC with 42-200 Chemistry 103
SFU Chemistry 101

42-110 Principles of Chemistry**3 sem. hrs.**

Classification of matter, atomic theory and structure, chemical bonding, energy and states of matter, structure and reactivity, energy and chemical change. Laboratory work directly related to lecture topics.

Prerequisite: B.C. chemistry grade 12 or equivalent
Lecture: 3 Tutorial: 1 Laboratory: 3
Transferability:
UBC with 42-210 Chemistry 120
SFU Chemistry 104

42-200 Applied General Chemistry**3 sem. hrs.**

A continuation of 42-100. Topics include acids, bases, and salts, oxidation-reduction, and introduction to organic, bio-chemistry, and nuclear chemistry.

Prerequisites: 42-100 or 42-110
Lecture: 3 Tutorial: 1 Laboratory: 3
Transferability:
UBC with 42-100 Chemistry 103
SFU to be determined

42-210 Applications of Principles of Chemistry**3 sem. hrs.**

This course follows 42-110 and applies the fundamental concepts developed to inorganic and organic systems, e.g. periodic table with its families of elements such as transition element, organic nuclear, and bio-chemistry.

Prerequisite: 42-110
Lecture: 3 Tutorial: 3 Seminar: 1
Transferability:
UBC with 42-110 Chemistry 120
SFU to be determined

42-310 Physical-Inorganic Chemistry**3 sem. hrs.**

An introduction to chemical thermodynamics. Topics include the first law of thermodynamics and thermochemistry, entropy, free energy, chemical equilibrium in molecular systems, acid-base equilibrium and applications to biology. Laboratory stresses physical methods in inorganic chemistry.

Prerequisite: 42-210
Lecture: 3x1 Seminar: 1 Laboratory: 1x3
Transferability:
UBC with 42-410 Chemistry 205

42-320 Organic Chemistry — Principles**3 sem. hrs.**

A general organic chemistry course especially for students in home economics, nursing, agriculture, forestry, and the medical and biological sciences. Deals with fundamental aspects of organic chemistry, as illustrated by the structure and properties of main functional groups such as alkanes, alkenes, arenes, alcohols, phenols, ethers, carbonyl compounds and carboxylic acids and their derivatives.

Prerequisite: 42-210 or 42-200 or equivalent
Lecture: 3x1 Tutorial: 1 Laboratory: 1x3
Transferability:
UBC with 42-420 Chemistry 230

42-410 Physical-Inorganic Chemistry**3 sem. hrs.**

Topics include chemical kinetics, electrochemistry and application of thermodynamics to phase equilibria and properties of solutions; chemistry of co-ordination compounds and the application of spectroscopy in the determination of molecular structure.

Prerequisite: 42-310
Lecture: 3x1 Seminar: 1 Laboratory: 3
Transferability:
UBC with 42-310 Chemistry 205
SFU 3 unassigned credits in Chemistry

42-420 Organic Chemistry — Principles and Application**3 sem. hrs.**

A continuation of 42-320. General reaction mechanisms in organic chemistry discussed, followed by introduction to the chemistry of carbohydrates, fats, proteins, and other compounds of biological interest (e.g. an alkaloid and a steroid).

Prerequisite: 42-320 or equivalent
Lecture: 3x1 Tutorial: 1 Laboratory: 1x3
Transferability:
UBC with 42-320 Chemistry 230

COMMUNICATIONS**92-100 Expository Writing****3 sem. hrs.**

The reading of expository writing and lectures on principles of composition with primary emphasis on written assignments, including revision of earlier work. Special attention to individual composition problems.

Prerequisite: Nil
Lecture: 1x2 Laboratory: 1x2
Transferability:
UBC 1½ units English 100
SFU No transfer credit

92-110 Career Communications**3 sem. hrs.**

The organisation of factual material and presenting it in letters and reports according to accepted business and professional standards.

Prerequisite: Nil
Lecture: 2x2
Transferability:
UBC No transfer credit
SFU No transfer credit
SIA Report Writing

92-120 Creative Writing — Multi-media**3 sem. hrs.**

A practical approach to writing and adapting materials for all areas of radio, television, and film — including news stories, drama for theatre release, television programming, and documentaries.

Prerequisite: Nil
Lecture: 1x1 Laboratory: 1x2 Field experience: 1x1
Transferability:
UBC No transfer credit
SFU No transfer credit
NDU 1½ units assigned credit

92-200 Advanced Exposition and Argument**3 sem. hrs.**

A study of rhetorical style from the point of view that good style is primarily a matter of making wise choices from a range of possibilities. Through reading examples, student discovers choices made by good writers. The student's own style is developed and studied through his own writing.

Prerequisite: 92-100 or first-year standing
Laboratory: 2x2
Transferability: To be determined

92-290 Applied Communications**3 sem. hrs.**

The application of rhetorical skills to job-communication situations. Includes persuasion and motivation strategies, conduct of and participation in business meetings, arts of listening and observation, internal and external business communications.

Prerequisite: 92-100 or 92-110
Lecture: 2x2
Transferability:
UBC No transfer credit
SFU No transfer credit

CONSTRUCTION MANAGEMENT

70-100 - See Speech 94 - 100

70-110 - See Communications 92 - 110

70-120 Construction Materials and Applications 3 sem. hrs.

Planning and supervising a construction job requires detailed knowledge of materials, their costs, and how they are used. Examines soil, concrete, aluminum, and various other materials, also their composition and applications.

Prerequisite: Nil
Lecture: 2 Laboratory: 2 Tutorial: 1
No transfer credit

70-130 Drafting 2 sem. hrs.

Includes basic skills of drafting, handling of drafting equipment, drafting layout, printing, titling, applied geometry, and drawing views. Provides a firm base for the construction drafting course, which is the detailed study of blueprint reading and interpretation.

Prerequisite: Nil
Lecture: 1 Laboratory: 3
No transfer credit

70-140 Construction Science 3 sem. hrs.

Defines some of the laws which describe the physical phenomena around us: forces and vectors, statics, moments and centre of gravity, power and energy, hydrostatics, hydrodynamics, and elasticity.

Prerequisite: B.C. Physics 11, or permission of instructor
Lecture: 2 Laboratory: 2 Tutorial: 1
No transfer credit

70-150 Construction Calculations 3 sem. hrs.

Aimed at increasing mathematical skills to the degree where one is capable of carrying out calculations required during management of a construction job. Includes handling of desk calculators, applied trigonometry, vectors, logarithms, slide rule, probability, and equation-solving.

Prerequisite: Math 11, or permission of instructor
Lecture: 3 Tutorial: 2
No transfer credit

70-200 Introduction to Management 3 sem. hrs.

Introductory survey course in managerial principles and methods, with special emphasis on management for contractors. Allocation of priorities to objectives and responsibilities; framing of policy; tasks of planning, organising, staffing, and controlling the work of others to achieve these objectives are studied. Particular attention to quantitative methods as managerial tools.

Prerequisite: Nil
Lecture: 3 Laboratory: 1
No transfer credit

70-220 Construction Materials and Applications 3 sem. hrs.

Continuation of 70-120 Construction Materials and Applications. Use of steel, wood, masonry, plastic, and glass in the construction trade is studied. Discusses fire safety, standards for materials, testing and code rulings on material standards. Course should round out student's knowledge of what he will be trying to control on the job.

Prerequisite: 70-120
Lecture: 2 Laboratory: 2 Tutorial: 1
No transfer credit

70-230 Construction Blueprint Reading 2 sem. hrs.

Relates principles and processes taught in Drafting 70-130 to construction blueprint reading. Teaches how to read and understand construction blueprints and specifications to carry out operations needed in quantity layout, estimating, and related fields.

Prerequisite: 70-130, or permission of instructor
Lecture: 2 Laboratory: 2
No transfer credit

70-240 Construction Science 3 sem. hrs.

Relates some of the physical laws to practical construction applications. Emphasis on temperature, heat, heat transfer and insulation, humidity, air conditioning, thermodynamics, sound and sound insulation, electricity, corrosion, illumination, and radiation shielding.

Prerequisite: B.C. Physics 11, or permission of instructor
Lecture: 3 Tutorial: 2
No transfer credit

70-300 Construction Management 3 sem. hrs.

Applies managerial principles and practices taught in Construction Management 70-200 to the managing of small and large construction firms. Explains how greater efficiency and profits can be obtained through careful planning, scheduling, and control operations. Also explains types of business organisations, company policies and standard procedures, cost control tools, development of bids from cost estimates, contracts and fees, equipment costs, legal and other matters.

Prerequisite: 70-200
Lecture: 3 Seminar: 1
No transfer credit

70-301 Construction Labor Relations 3 sem. hrs.

Fundamental issues and facts of labor-management relations in the B.C. construction industry. Includes bargaining, collective agreement content and interpretation, and labor economics, with special emphasis on the solution of present-day problems.

Prerequisite: Nil
Lecture: 2 Seminar: 1
No transfer credit

70-320 Construction Strength and Design 3 sem. hrs.

Basic concepts involved in designing a system, from a structural member to a complete structure. An introduction to strength of materials and a few basic analysis and design formulas. Examines utility of design tables commonly used to perform structural design.

Prerequisite: 70-150
Lecture: 4
No transfer credit

70-360 Construction Estimating 3 sem. hrs.

Fundamentals of building construction estimating (material and labor); use of quantity take-off sheets and preparation of a general estimate. Course integrates knowledge and understanding gained during first two semesters of Construction Management programme.

Prerequisite: Enrollment in construction management certificate or diploma programme, or employment in or experience with the construction industry.
Lecture: 3 Tutorial: 2
No transfer credit

70-390 Construction Surveying 3 sem. hrs.

The elements of plane surveying. Includes surveying instruments, distance measurement, differential levelling, simple traverses, construction surveying, surveying notes, office computations. Designed to familiarise students with concepts of field surveying, not to qualify graduates as surveyors.

Prerequisite: 70-150
Lecture: 2 Tutorial: 3
No transfer credit

70-400 Office Management 3 sem. hrs.

The technicalities of running an office and legalities of handling construction contracts. Includes personnel management, principles of accounting and financing, and construction law.

Prerequisite: 70-110, 70-200
Lecture: 2 Tutorial: 2
No transfer credit

70-460 Construction Estimating and Bidding 3 sem. hrs.

Applies principles taught in 70-360 to estimate material, miscellaneous, and labor costs; also outlines overhead costs and profit allowances for complete construction projects. Co-operation of estimator with field personnel stressed.

Prerequisite: 70-360
Lecture: 2x1 Laboratory: 1x3
No transfer credit

70-491 Structures 3 sem. hrs.

Enables student to study structural techniques and types in light of his knowledge of estimating and bidding, structural design, and blueprint reading. Exhibits practical applications of techniques learned in these prerequisite courses. Includes frame dwelling construction, formwork erection, shoring and underpinning, concrete and reinforcing placement, and steel erection techniques.

Prerequisite: 70-230, 70-360 and 70-320
Lecture: 3 Seminar: 1
No transfer credit

70-492 Construction Scheduling 3 sem. hrs.

Applies principles taught in 70-360 to construction scheduling methods generally, and to the use of critical path method (CPM) scheduling specifically. Explains purpose and principles of scheduling, and symbols and activities of CPM.

Corequisite: 70-460
Lecture: 1x2 Tutorial: 1x2
No transfer credit

70-493 Project and Contract Management 3 sem. hrs.

Applies principles taught in 70-300 to both administration of construction and trade contracts and administration of project management contracts.

Corequisite: 70-460
Lecture: 3x1 Tutorial: 1
No transfer credit

CREATIVE WRITING

96-100 The Short Story 3 sem. hrs.

A workshop in the craft of short-story writing. The nature of the story — its compression of time — examined in works of major authors. Encourages students to write stories which are evaluated by instructor and classmates.

Prerequisite: Nil
Laboratory: 2x2
Transferability:
UBC 1½ units English 100
also 1½ units with Creative Writing 202
96-200
SFU No transfer credit

96-200 Short Story, Poetry, Drama and the Novella**3 sem. hrs.**

A workshop in the craft of short-story, poetry, drama, and novella writing. The nature of each of these art forms examined in the works of major authors. Students encouraged to continue writing in the form in which he shows the most promise, his work being discussed by instructor and classmates.

Prerequisite: 96-100

Laboratory: 2x2

Transferability:

UBC 1½ units English 100

also 1½ units with Creative Writing 202 96-100

SFU No transfer credit

DOUGLAS FOUR**00-100 and 00-200 Douglas Four****12 sem. hrs.**

Douglas Four offers an alternative path to learning. It minimises course structure and the traditional approach to learning. That is, it does not deal with knowledge divided into courses, such as philosophy, sociology, mathematics, or physics; instead, students approach knowledge by studying encompassing themes. Learning approaches such as seminars, lectures, field experiences, film and reading programmes, are used where helpful to overall development. Douglas Four provides a student the opportunity of joining with other students and faculty in decision-making regarding the learning process, thus affording him a chance to cope with personal challenges and those of contemporary society.

Prerequisite: Nil

Lecture: 1 Seminar: 5 Field experience: 2

Tutorial: 2 Student-directed Learning: 12

Transferability:

UBC 9 units unassigned credit in Arts applied for

SFU 12 unassigned credits in Arts

ECONOMICS**83-100 Fundamentals of Economics****3 sem. hrs.**

An introduction to macro and micro economics: the nature of economics; gross national product and distribution of wealth; concept of interest; monetary policy and banking system; demand for factors of production; pure competition, imperfect competition, and monopoly. Emphasis on relating course content to current situations in the market place.

Prerequisite: Nil

Lecture: 4

No transfer credit

83-101 The Canadian Economy**3 sem. hrs.**

An analysis of the Canadian economy relating to a broad range of areas including growth, the roles of business and government in society, foreign trade, and monetary and fiscal policies. Emphasis on inflation, poverty, and unemployment. Student participation required.

Prerequisite: Nil

Lecture: 3 Seminar: 1

Transferability:

UBC 1½ units unassigned credit in Economics

SFU 3 unassigned credits in Economics

83-110 Economic History**3 sem. hrs.**

Economic development of man through various stages of progress which laid the basis of our present-day economic system. Development of civilisation, religion, social organisation, and government as a result of changing economic circumstances. From man's early beginnings to 1800.

Prerequisite: Nil

Lecture: 4

Transferability:

UBC 1½ units unassigned credit in Economics

SFU 3 unassigned credits in Economics

83-201 Issues in Economic Development**3 sem. hrs.**

Describes economic conditions in third-world countries and examines factors promoting or hindering the process of economic development.

Prerequisite: Nil

Lecture: 4

Transferability:

UBC 1½ units unassigned credit in Economics

SFU 3 unassigned credits in Economics

83-210 Economic History**3 sem. hrs.**

Economic development of Western Europe and North America since 1800 with special attention to economic growth of Canada. The different economic systems of the 20th century are compared.

Prerequisite: Nil

Lecture: 4

Transferability:

UBC 1½ units unassigned credit in Economics

SFU 3 unassigned credits in Economics

83-311 Principles of Macro Economics**3 sem. hrs.**

A framework is presented in which the components of national income are rigorously analysed. Attention is focused on money and its role, the banking system and credit creation, multiplier analysis, and the role of government in the area of constraint and taxes.

Prerequisite: Second-year standing if student wishes to transfer this course to UBC and use it as a prerequisite to Economics 300

Lecture: 1x2 Seminar: 1x2

Transferability:

UBC with 83-411 Economics 200

SFU 3 semester hours Economics 200

CGA with 83-411 204

SIA with 83-411 Introductory Economics

83-411 Principles of Micro Economics**3 sem. hrs.**

Analysis of economic problems related to the firm and the individual, in both perfectly and imperfectly competitive markets, and the determination of price in both the goods and the productive factors markets.

Prerequisite: Second-year standing if student wishes to transfer this course to UBC and use it as a prerequisite to Economics 300

Lecture: 3 Seminar: 1

Transferability:

UBC with 83-311 Economics 200 (3 units)

SFU with 83-311 Economics 200 (6 credits)

CGA with 83-311 204

SIA with 83-311 Introductory Economics

EDUCATION**66-100 The Student and Successful Library Research****2 sem. hrs.**

Designed to acquaint student with methods of research and library materials available to aid in research. Provides practical knowledge of research tools and illustrates how proper use of the library can lead to more efficient employment of time and better academic performance.

Prerequisite: Nil

Seminar: 1 Tutorial: 1 Field experience: 1

No transfer credit

66-110 Audio-Visual Technology**3 sem. hrs.**

Designed to develop fundamental skills and techniques in the preparation and use of a wide variety of audio-visual materials: film, videotape, audiotape, graphics. Skills and techniques are applied to planned messages within an educational framework, based upon principles of communication theory.

Prerequisite: Nil

Lecture: 2 Laboratory: 2x2

No transfer credit

66-115 Graphics for Visual Aids**1 sem. hr.**

Persons with training in illustration and design will become familiar with the finished product, the art skills involved, and the use of raw materials in visual aids.

Prerequisite: Nil

Lecture: ½-1

Laboratory: 3

No transfer credit

66-210 Audio-Visual Communications**3 sem. hrs.**

Advanced work with a variety of media, involving design, production, use, and evaluation of instructional programmes for use by individuals and groups. Emphasis on production of materials, management of learning experiences, and the communication process.

Prerequisite: 66-110

Lecture: 2 Laboratory: 3

No transfer credit

ENGLISH

See Communications, Creative Writing, Literature, Reading Skills, and Speech and Theatre.

FASHION**61-100 Primary Flat-Pattern Drafting****3 sem. hrs.**

How to create a variety of body patterns — sleeves, bodices, skirts — from basic measurements and to further develop them to original designs. Industrial techniques used to simulate an industrial atmosphere. Trains students for careers as fashion designers and pattern makers.

Prerequisite: Nil

Laboratory: 9

No transfer credit

61-110 Introductory French Draping**1 sem. hr.**

Professional design-room techniques of pattern drafting, using method of French draping as in couture and industrial areas. French draping is a continuing process throughout all four semesters with student progressing as his ability dictates.

Prerequisite: Nil

Laboratory: 3

No transfer credit

61-120 Basic Apparel Design and Textiles**3 sem. hrs.**

Stimulates creativity and increases understanding of fashion trends. Trends of 20th century analysed. Emphasis on sources of inspiration for design. Rules of good design covered. Designs created.

Prerequisite: Nil

Seminar: 2 Laboratory: 4

No transfer credit

61-130 Fundamentals of Apparel Construction 1 sem. hr.

Professional design-room techniques of garment construction related to couture and mass production markets. Emphasis on fit and professional finishing. Proper use of linings, interlinings, interfacing, etc.

Prerequisite: Nil
Laboratory: 3
No transfer credit

61-200 Intermediate Flat-Pattern Drafting 3 sem. hrs.

Utilisation of the three basic blocks — waist, sleeve, skirt, and orientation in industrial methods of block development, proper marking, notching, etc. Student learns to analyse cause of mistakes and how to make proper correction.

Prerequisite: 61-100
Laboratory: 6
No transfer credit

61-210 Applied French Draping 1 sem. hr.

Professional design-room techniques of pattern drafting, using method of French draping as in couture and industrial areas. This course, required in all four semesters, allows student to progress according to ability.

Prerequisite: 61-110
Laboratory: 3
No transfer credit

61-220 Apparel Design and Textiles 3 sem. hrs.

Principles and applications learned in 61-120 expanded. Creative expression and commercial analysis of fashion trends emphasised in projects.

Prerequisite: 61-120
Lecture: 2 Laboratory: 4
No transfer credit

61-230 Apparel Construction 3 sem. hrs.

Tailoring of original designs using design-room techniques. Emphasis on styling, fit, professional finishing, appropriate use of fabric, lining, interlining, trims, etc.

Prerequisite: 61-130
Laboratory: 6
No transfer credit

61-300 Senior Flat-Pattern Drafting 3 sem. hrs.

Student continues to advance the basic block set, including coat and suit blocks, and pant-type garments. Advanced grading learned. Knowledge gained in first year, plus that learned in this class, is used to prepare student designer collection.

Prerequisite: 61-200
Laboratory: 6
No transfer credit

61-310 Creative French Draping 1 sem. hr.

Professional design-room techniques of pattern drafting, using method of French draping merged with flat-pattern drafting to produce advanced stylings.

Prerequisite: 61-210
Laboratory: 3
No transfer credit

61-320 Commercial Apparel Design and Textiles 3 sem. hrs.

A study of design concepts and methods. Eminent designers of clothing industries studied. Influence of fabrics on design completes course.

Prerequisite: 61-220
Lecture: 2 Seminar: 2 Laboratory: 2
No transfer credit

61-330 Senior Apparel Construction 3 sem. hrs.

Professional assembling procedure with emphasis on coats and suits. Design-room finishes and details covered. Techniques of using sewing machine to achieve similar finishes as produced by handwork.

Prerequisite: 61-230
Laboratory: 6
No transfer credit

61-390 History of Costume 3 sem. hrs.

A survey from earliest times to 17th century. Included is dress of ancient Orient and Egypt, Greece, Rome, Feudal Europe, and the Renaissance. Open to students in other programmes.

Prerequisite: Nil
Lecture: 3x1 Laboratory
No transfer credit

61-400 Advanced Flat-Pattern Drafting 3 sem. hrs.

Student continues to advance basic block set with relation to children's wear and intimate apparel. Student designer collection completed this semester. Fashion show planned, bringing allied courses into focus.

Prerequisite: 61-300
Laboratory: 6
No transfer credit

61-410 Commercial Application of French Draping 1 sem. hr.

Professional techniques of producing patterns using method of French draping expanded and refined. Garments made from the method, as well as those combined with flat-pattern drafting, included in fashion show.

Prerequisite: 61-310
Laboratory: 3
No transfer credit

61-420 Advanced Apparel Design and Textiles 3 sem. hrs.

Students complete designer collection and do individual share of work required for the fashion show — promotion, commentary, modelling, etc. This is when all courses studied throughout two-year programme unite to produce the fashion show.

Prerequisite: 61-320
Lecture: 2 Seminar: 2 Laboratory: 2
No transfer credit

61-430 Advanced Apparel Construction 3 sem. hrs.

Assembling of children's wear and intimate apparel. Garments for fashion show completed.

Prerequisite: 61-330
Lecture: 1x2 Laboratory: 1x4
No transfer credit

FIRE SCIENCE**63-100 Chemistry of Fire 3 sem. hrs.**

Presents chemical knowledge essential to anyone concerned with the fire-fighting community for safe and efficient performance of tasks. Includes characteristics of matter, gases, fundamental principles, combustion and heat, atomic energy and radiation.

Prerequisite: Nil
Lecture: 2 Laboratory: 2
No transfer credit

63-101 Survey of Fire Science 3 sem. hrs.

Describes roles of volunteer, industrial, marine, aviation, municipal, provincial and federal fire-fighting authorities. B.C. Fire Marshal's Act studied. Although fire insurance, prevention and protection, suppression and investigation are later treated separately, this survey includes a brief historical study of these areas and examines their functional inter-relationship.

Prerequisite: Nil
Lecture: 2 Laboratory: 2
No transfer credit

63-270 Fire Insurance 3 sem. hrs.

Commencing with basic reasons for obtaining fire insurance and a profile of national fire losses, course discusses roles of broker, adjuster, underwriter, and insurance companies; how insurance is sold; criteria by which a competitive rate is set; role of rating organizations such as Canadian Underwriters Association; re-inspection services and recommendations; investigation and challenging of claims.

Corequisite: 63-100 and 63-101
Lecture: 4 Laboratory: Nil
No transfer credit

63-271 Fire Prevention 3 sem. hrs.

Included is role played by Canadian Underwriters Association, the fire marshal, and other authorities, in enforcing acceptable standards of fire prevention and protection in business, industry, etc. Aspects of fire prevention include materials handling and design; hazard control; education programmes; and special legislation. Aspects of fire protection include understanding and control of important electrical and hydraulic protection systems, such as ionization detectors and automatic sprinklers.

Corequisite: 63-100 and 63-101
Lecture: 4 Laboratory: Nil
No transfer credit

63-273 Fire Investigation 3 sem. hrs.

Discusses various investigative organisations including their roles and responsibilities; skills and training required of an investigator; pattern and behavior of accidental fires involving principles of the chemistry of fire, scientific investigation of fire causes, writing a fire investigation report, and fire fighters' contribution to fire investigation.

Corequisite: 63-100 and 63-101
Lecture: 4 Laboratory: Nil
No transfer credit

63-274 Fire Science Technology 3 sem. hrs.

Discusses materials, standards, and standards tests; roles of organizations such as Underwriter Laboratories of Canada and Canadian Underwriters Association; how the degree of fire protection determines insurance rates and the influence this has on materials selection; fire-fighting apparatus, their capabilities and test standards; measurement techniques; main guidelines for design, layout, and installation of fire protection systems.

Corequisite: 63-100 and 63-101
Lecture: 2 Laboratory: 2
No transfer credit

French

See Modern Languages.

GEOGRAPHY**25-100 Man and the Earth 3 sem. hrs.**

An introduction to the data, methods, and theories of human geography. The interaction of culture and environment.

Prerequisite: Nil
Lecture: 2 Seminar: 2
Transferability:

UBC 1½ units unassigned credit in Geography

SFU 3 unassigned credits in Geography and with 25-130 Geography 101

25-101 Introduction to Earth Sciences**3 sem. hrs.**

An interdisciplinary introduction to the study of the earth to provide a broad background for further studies in geography. Topics include: earth as a planet, forces that shape the planet, geomorphic processes, earth history, maps, and earth materials.

Prerequisite: Nil

Lecture: 2 Laboratory: 3

Transferability:

UBC with either 25-110 or 25-120 Geography 101
SFU 3 unassigned credits in Geography

25-110 Weather and Climate**3 sem. hrs.**

An introduction to the study and techniques of meteorology and climatology and their application to environmental problems, including air pollution, Arctic survival, and forest fire control.

Prerequisite: Nil

Lecture: 2x2

Transferability:

UBC 1½ units unassigned credit in Geography or with 25-120 Geography 101
SFU 3 unassigned credits in Geography or with 25-120 Geography 211 and 3 unassigned credits in Geography

25-120 Evolution of the Earth's Surface**3 sem. hrs.**

A study of the origins and development of the earth's surface features. Three field trips.

Prerequisite: Nil

Lecture: 2x2

Transferability:

UBC 1½ units unassigned credit in Geography or with 24-110 Geography 101
SFU 3 unassigned credits in Geography or with 25-110 Geography 211 and 3 unassigned credits in Geography

25-130 Environment and Technology**3 sem. hrs.**

An attempt to ascertain root causes of the environmental crisis to establish a more balanced perspective than current popular doomsday theorising. Four serious proposals for restructuring the man-nature relationship explored. This is not a "pollution solution" course nor an ecology course, but an enquiry into the environmental impact of varying man-nature philosophies.

Prerequisite: Nil

Lecture: 2 Seminar: 2

Transferability:

UBC 1½ units unassigned credit in Geography
SFU 3 unassigned credits in Geography and with 25-100 Geography 101

25-140 Geography as Image, Meaning, and Feeling**3 sem. hrs.**

An introduction to geography as the study of man's sense of "place". Develops four basic themes: (1) historical roots of the geographer's fascination with "place" — especially the French school of geography; (2) image — emergence of environmental perception as a key geographic concept; (3) meaning — landscape symbolism; (4) feeling — the subjective, emotional experiencing of one's "place". Reliance on seminar participation and field trip experience to develop course concepts. As a major project, student analyses the sense of place revealed in the work(s) of a novelist or artist of his choice.

Prerequisite: Nil

Lecture: 2 Seminar: 2

Transferability:

UBC 1½ unassigned credit in Geography
SFU 3 unassigned credits in Geography

25-150 The Canadian Arctic**3 sem. hrs.**

An introduction to the physical and human geography of Arctic Canada, with reference to other polar regions such as Antarctica and Russian Arctic. Problems of human occupancy in the north and the impact of man on the physical environment: exploration, transportation, historical development of several Arctic communities (Frobisher, Resolute, Cambridge Bay), northern resources, and current social problems. Stresses physical environment and resource development. Student interest in meteorology, basic geomorphology, and human geography assumed.

Prerequisite: Nil

Lecture: 2 Seminar: 1

Transferability:

UBC 1½ units unassigned credit in Geography
SFU 3 unassigned credits in Geography

25-160 British Columbia and Yukon**3 sem. hrs.**

Introductory regional geography of B.C. and Yukon. Includes a general study of physical environment and a historical-settlement background, but concentrates on problems relevant to sections of the Pacific Coast area — e.g. resource development and conservation, irrigation, urbanization, life in remote rural areas. Examines role of the west in Canada's future development. Field work an integral part of course. Basic knowledge of map reading assumed.

Prerequisite: Nil

Lecture: 2 Seminar: 1

Transferability:

UBC 1½ units unassigned credit in Geography
SFU 3 unassigned credits in Geography

25-170 Introduction to Cartographic Techniques**3 sem. hrs.**

Techniques and tools a geographer uses to establish geographic relationships. Includes field survey, construction of maps to scale, interpretation of aerial photographs and topographic maps, and construction of diagrams, cartograms, and distribution maps.

Prerequisite: Nil

Lecture: 2 Laboratory: 3

Transferability:

UBC 1½ units unassigned credit in Geography
SFU Geography 151 (3)

GEOLOGY**43-101 Introduction to Earth Sciences****3 sem. hrs.**

An interdisciplinary introduction to the study of the earth to provide a broad background for further studies in geography or geology. Includes: earth as a planet, forces that shape the planet, geomorphic processes, earth history, maps, and earth materials.

Prerequisite: Nil

Lecture: 2 Laboratory: 3

Transferability:

UBC with 43-210 Geology 105 or 3 units unassigned credit in Science or with either 25-110 or 25-120 Geography 101
SFU Geography 211

43-102 Materials of the Earth's Crust**2 sem. hrs.**

A general-interest course in geology. Entails identification, classification, and formational environments of common rocks and minerals.

Prerequisite: Nil

Lecture: 3 Laboratory: 3

No transfer credit

43-210 Our Changing Earth**3 sem. hrs.**

An enquiry into aspects of earth history, with special emphasis on origin of the earth and its environment. Development of continents and oceans, investigation of geologic and resource environmental problems. An application of geologic principles to interpret data collected in 43-110 and 43-111.

Prerequisite: 43-100

Lecture: 2 Laboratory: 4

Transferability:

UBC with 43-100 Geology 105
SFU 3 unassigned credits in Science

43-320 The Fossil Record**3 sem. hrs.**

The fossil record; ancient populations; applications of the fossil record; taxonomy and the species concept in paleontology; evolution of selected animals and plants.

Prerequisite: 43-100 or permission of instructor

Lecture: 3 Laboratory: 3

Transferability:

UBC Geology 203 (1½ units)
SFU 3 unassigned credits in Science

43-321 Sedimentology**3 sem. hrs.**

Introduction to sediments and sedimentary rocks; sediment transportation and deposition; diagenesis; composition, texture and structures; depositional environments; facies, correlation.

Prerequisite: 43-101

Lecture: 2 Laboratory: 4

Transferability:

UBC Geology 206 (1½ units)
SFU 3 unassigned credits in Science

43-370 Crystallography**3 sem. hrs.**

Includes crystal symmetry, classes, and systems; nomenclature and projection of crystals; crystal identification; space lattices; crystal chemistry and X-ray diffraction. Course essential to all geology majors and should be taken in second year of study.

Prerequisite: Chemistry 42-200 or 42-210 and Physics 45-200 or 45-210 Geol 43 - 100.
Lecture: 3 Laboratory: 3

Transferability:

UBC with 43-470 Geology 210
SFU 3 unassigned credits in Science

43-470 Mineralogy**3 sem. hrs.**

A second-year specialized course for students continuing to more advanced studies in geology. Fundamentals of crystal chemistry as applied to minerals, physical and chemical properties of minerals, mineral genesis, determinative mineralogy, mineral classification.

Prerequisite: 43-370

Lecture: 3x2

Transferability:

UBC with 43-370 Geology 210
SFU 3 unassigned credits in Science

GRAPHIC and COMMUNICATION ARTS**13-100 Basic Drawing****4 sem. hrs.**

A commercial art-oriented drawing and sketching course. Trends change, but anatomy and perspective values remain constant; once a sound basic foundation is achieved, individuality will provide new ways to apply and present them. Emphasis on perspective and proportion, anatomy, and tone-values.

Prerequisite: Nil

Laboratory: 9

No transfer credit

13-110 Introduction to Commercial Illustration**3 sem. hrs.**

An introduction to media, techniques, color. Emphasis on learning proper application and recognition of various materials used.

Prerequisite: Nil

Laboratory: 6

No transfer credit

13-120 Introductory Graphics and Applied Design**4 sem. hrs.**

All work begins with the premise that it has a message and a purpose. Mentally, strip the subject to its most efficient essentials, proceed with a direct and simple interpretation, stress what is of greatest importance to achieve visual impact; thus the language of art is achieved. Course provides a foundation with introduction to the principles of graphic design. The natural co-ordination of lettering and design as an art form.

Prerequisite: Nil
Laboratory: 2x1½ Lecture: 2x½ Seminar: 2x1
No transfer credit

13-121 History of Graphic Communications**3 sem. hrs.**

An introductory survey of the history of graphic communications from the dawn of barter in the ancient world. Special emphasis on tracing man's endeavor to influence his fellow man through use of visual media.

Prerequisite: Nil
Laboratory: 4
No transfer credit

13-131 Lettering, Layout, and Typography**1½ sem. hrs.**

The significance of lettering and typography in visual communication. Students study lettering formation and classification, gaining skill in rendering techniques for layout and finished lettering. They develop an appreciation of lettering as an element in graphic design, and acquire knowledge of process lettering available to the designer and how it should be applied.

Prerequisite: Nil
Lecture: 1 Laboratory: 2
No transfer credit

13-135 Introduction to Advertising**3 sem. hrs.**

A general survey of advertising methods, media, and principles; function of color and design in layout as an effective visual tool in communication of ideas; advertising economics, campaigns, motivational research, sales promotion methods.

Prerequisite: Nil
Lecture: 1 Laboratory: 2 Seminar: 1
No transfer credit

13-140 Fashion Illustration**3 sem. hrs.**

An introduction to drawing and sketching using pencil, charcoal, and pastels. Emphasises perspective and proportion, anatomy and tone values. Once a sound foundation is achieved, the student develops confidence and individuality in drawing.

Prerequisite: Nil
Laboratory: 3x2
No transfer credit

13-150 Graphic Arts**1½ sem. hrs.**

First of four semester courses on technical aspects of communication arts, particularly reproduction of design in print. A study of the nature of light, and its manipulation with lenses, filters, and emulsions. Students expose and process various types of photosensitive material as they explore the potential of the camera as a design tool and acquire basic technical knowledge necessary to understanding photo-mechanical plate and stencil-making methods.

Prerequisite: Nil
Lecture: 1 Laboratory: 2
No transfer credit

13-151 Technology of Graphic Communications**3 sem. hrs.**

A study of processes applied and equipment used in graphic communications. Emphasises preparatory function of graphic arts and includes a practical approach to copy fitting, setting of body composition to display type using various exposure machines, strike-on, and photocomposition; layout organization, proper marking of proofs, and general methods employed in conversion of type for press or camera.

Prerequisite: Nil
Lecture: 2 Laboratory: 2
No transfer credit

13-200 Drawing**4 sem. hrs.**

A continuing study of the figure, proportion and perspective, and still-life drawing using various media, free sketching, and finished art. Landscape and imaginative visuals interpreted in wash and ink rendering and water color. Emphasis on composition.

Prerequisite: 13-100
Laboratory: 9
No transfer credit

13-210 Commercial Illustration**3 sem. hrs.**

Student learns to give messages, events, ideas, and values a visible form and to apply the various mediums clearly in a minimum of time. He practises with pen and brush, line techniques, and color to achieve discipline and control; and experiments in use of textures, using a variety of papers and equipment.

Prerequisite: 13-110
Laboratory: 6
No transfer credit

13-220 Graphics and Applied Design**4 sem. hrs.**

Enables student to take progressive steps to include more advanced elements of design, composition, layout, and fields of application. He learns to recognise and adopt the alphabet that fits the message.

Prerequisite: 13-120
Laboratory: 2x1½ Lecture: 2x½ Seminar: 2x1
No transfer credit

13-231 Lettering, Layout, and Typography**1 sem. hr.**

Present-day typesetting trends. Classification of type faces and their application to effective communication. Body and display type as design elements, layout principles, and rendering techniques. Type markup and ordering, working drawing assembly.

Prerequisite: 13-131
Lecture: 1 Laboratory: 2
No transfer credit

13-240 Fashion Illustration**3 sem. hrs.**

A continuing study of the figure, proportion and perspective, free sketching, and finished art. Wash and ink rendering and water color, as applied to fashion illustration.

Prerequisite: 13-140
Laboratory: 3x2
No transfer credit

13-250 Graphic Arts**1½ sem. hrs.**

Fundamentals of letterpress and lithographic printing, line and halftone reproduction in print, color separation, four-color process, duplicate plate-making, and silk screen. Students produce their own line and halftone prints on a process camera and make multi-color silk screen runs with hand-made stencils.

Prerequisite: 13-150
Lecture: 1 Laboratory: 2
No transfer credit

13-300 Intermediate Drawing and Painting**4 sem. hrs.**

A continuing study of the draped and clothed figure. Gesture in relation to the emotion. Portrait studies in various media. Commercial character and theme cartooning. Caricature. Townscape, landscape, and seascape interpreted in various media.

Prerequisite: 13-200
Laboratory: 9
No transfer credit

13-310 Illustration**3 sem. hrs.**

Illustrates the value of sound preparatory work and how the craftsman's skill coordinates with natural creativity to achieve an artistic objective. Emphasis on line and wash, opaques, fluorographic, percentages, combination halftones, full color, combination of media. Commercial photo retouching for reproduction.

Prerequisite: 13-210
Laboratory: 6
No transfer credit

13-320 Intermediate Graphics and Applied Design**4 sem. hrs.**

Student progresses in use of typeset and recognizes how the flexibility and creative application of lettering adds to the correlation of copy and illustration. Further study and practice in technical design, overlay systems, color separation with art or camera, miscellaneous sales pieces, continuing creative experimentation in block printing, silk screen and air-brush techniques.

Prerequisite: 13-220
Laboratory: 2x1½ Lecture: 2x½ Seminar: 2x1
No transfer credit

13-340 Fashion Illustration**3 sem. hrs.**

Emphasises the figure and garment; how the garment dictates the pose. The use of various media interpreting fabrics and furs, accessories, feature, and pattern. Visuals of men's and children's fashions. Art for reproduction in line, halftone, and color.

Prerequisite: 13-240
Laboratory: 6
No transfer credit

13-350 Graphic Arts**1½ sem. hrs.**

Students become familiar with the College printing plant and do their own stripping, double printing, plate-making. Application of the photostencil to silk screen and use of photomechanical techniques in design explored, including 3M color key, posterization, special halftone screens, line-from-tone and fluorographic dropout. Students reproduce art work they have prepared expressly for the process involved.

Prerequisite: 13-250
Lecture: 1 Laboratory: 2
No transfer credit

13-400 Advanced Drawing and Painting**4 sem. hrs.**

Encourages student to complete assignments involving previous subject areas in a professional manner, as examples of work to be incorporated in a portfolio in co-operation with other course needs.

Prerequisite: 13-300
Laboratory: 9
No transfer credit

13-410 Advanced Commercial Illustration**3 sem. hrs.**

Continuation of commercial photo retouching for reproduction at a more advanced level. Examples of work involving all previous subject areas to be completed and incorporated within a prepared portfolio for employment interviews in co-operation with other course needs.

Prerequisite: 13-310
Laboratory: 6
No transfer credit

13-420 Advanced Graphics and Applied Design**4 sem. hrs.**

Course devoted to the professional completion, within deadlines, of a portfolio with examples of design lettering, prepared mechanicals, creative application of block printing, silk screen, and air-brush techniques, agency and retail advertising assignments, to be presented at employment interviews.

Prerequisite: 13-320
Laboratory: 2x1½ Lecture: 2x½ Seminar: 2x1
No transfer credit

13-440 Fashion Illustration**3 sem. hrs.**

Student develops a portfolio through assignments involving previous subject areas, presenting problems closely related to those in the field and completing same within deadlines on a professional basis for employment interviews.

Prerequisite: 13-340
Laboratory: 6
No transfer credit

13-450 Graphic Arts**1½ sem. hrs.**

Individual coaching and supervision in preparation, and printing of chosen assignments, likely including personal brochure for use in seeking employment. All stages of each assignment carefully mounted for inclusion in student's portfolio.

Prerequisite: 13-350
Lecture: 1 Laboratory: 2
No transfer credit

HISTORY

Douglas's history courses are designed not merely to focus on the period or region specified in course title, but also to introduce and develop skills necessary for a full appreciation of history. These include research methods, comparison of historical interpretations, analysis of historical problems, and clear expression of ideas on historical topics. Students planning to major in history are advised to take basic introductory course History 21-100 early in their programme.

21-100 The Meaning of History**3 sem. hrs.**

The varied roles of history — as a source of interest and enjoyment, and as a means toward greater understanding of the human condition. Examples drawn from periods of history and works of outstanding historians. Strongly recommended for students majoring in history at SFU.

Prerequisite: Nil
Lecture: 2 Tutorial: 2
Transferability:
UBC 1½ units unassigned credit in History
SFU History 100 (3)

21-110 The Fraser Valley**3 sem. hrs.**

A study of local history, with the interaction between man and the Fraser Valley environment as its central theme. Contributions from anthropology, geography, and ecology provide insight into the varied factors involved.

Prerequisite: Open to any second-semester student, or by permission of instructor
Lecture: 2 Tutorial: 2
Transferability:
UBC 1½ units unassigned credit in History
SFU 3 unassigned credits in History

21-113 Canada 1763-1867: A Century of Change**3 sem. hrs.**

An examination of basic conditions of British North America from the British conquest to Confederation. Stress placed on internal and external political, social, and economic forces which shaped Canadian history.

Prerequisite: Nil
Lecture: 2 Seminar: 2
Transferability:
UBC with 21-114 History 135 (3)
SFU History 218 (3)

21-114 Canada 1867-1967: Development and Compromise**3 sem. hrs.**

Emphasis on examination of internal and external political, social, and economic forces which shaped Canadian history, and varying historical interpretations of these forces.

Prerequisite: Nil
Lecture: 2 Seminar: 2
Transferability:
UBC with 21-113 History 135 (3)
SFU History 218 (3)

21-120 Illusion and Disillusion: Europe 1900-1939**3 sem. hrs.**

A study of the illusions which preceded World Wars I and II. Stresses political responses to social and economic changes which characterized the period.

Prerequisite: Nil
Lecture: 2 Tutorial: 2
Transferability:
UBC 1½ units unassigned credit in History
SFU History 225 (3)

21-121 Europe Since 1939**3 sem. hrs.**

Starts with World War II and traces the recovery of Europe to new prosperity. Division between East and West discussed, the new role of Europe in the world appraised, and new patterns of political, cultural, social, and spiritual life examined.

Prerequisite: Nil
Lecture: 2x2 Seminar: 2x1
Transferability:
UBC with 21-120 History 100
SFU History 242 (3)

21-122 Problem Studies in German History**3 sem. hrs.**

Problems drawn from various periods of German history: late medieval political disunity; Germans and Slavs; effect of the Reformation: the rise of Prussia; Germany and revolution; unification and empire; Nazism; Germany divided.

Prerequisite: Nil
Lecture: 2 Tutorial: 2
Transferability:
UBC 1½ units unassigned credit in History
SFU History 226 (3)

21-130 20th-Century Russia and the Soviet Union**3 sem. hrs.**

Various interpretations of Russian and Soviet history by Western and Soviet historians, concentrating on: the political system in Tsarist Russia and growth of Marxism; Russo-Japanese War and Revolution of 1905; Revolution of 1917; nationalism vs. communism; national republics; development of the Soviet Union and the Eastern Bloc.

Prerequisite: Nil
Lecture: 2 Seminar: 2
Transferability:
UBC 1½ units unassigned credit in History
SFU History 226 (3)

21-140 Nation in Conflict: The U.S.A. in The 20th Century**3 sem. hrs.**

Historical roots and modern aspects of contemporary United States problems relating to race relations. American democratic tradition, economic structure, and foreign policy. Focus on origin, events, and effects.

Prerequisite: Nil
Lecture: 2 Tutorial: 2
Transferability:
UBC 1½ units unassigned credit in History
SFU History 213 (3)

21-141 U.S.A. and the Far East: 1898 to the Present**3 sem. hrs.**

Beginning with geographical and traditional background of the Far East, course traces historical development of diplomatic relations with the Far East. Special emphasis on imperialism, revolution, and nationalism from the Boxer Rebellion to the present.

Prerequisite: Nil
Lecture: 3 Seminar: 1
Transferability:
UBC 1½ units unassigned credit in History
SFU 3 unassigned credits in History

21-142 The United States from Colonization to Nationhood**3 sem. hrs.**

A historical and historiographical enquiry into growth of the United States from first colonisation to the presidency of Jefferson.

Prerequisite: Nil
Lecture: 2 Seminar: 2
Transferability:
UBC 1½ units unassigned credit in History
SFU History 150 (3)

21-150 An Introduction to Modern Chinese History**3 sem. hrs.**

Covers imperial era (1839-1911), transitional republic period (1912-1949), and the present communist stage. Emphasis on post-1920 era, when the main theme of Chinese history was the struggle between nationalists and communists, and the war of resistance against Japanese aggression, culminating in the rise of Mao and establishment of the People's Republic.

Prerequisite: Nil
Lecture: 4
Transferability:
UBC 1½ units unassigned credit in History
SFU History (3)

21-280 Quebec in Canada**3 sem. hrs.**

A historical enquiry into the evolution of French Canada from British conquest to the present.

Prerequisite: Any one of 21-100, 21-113, 21-114, or by permission of instructor
Lecture: 1 Seminar: 3
Transferability:
UBC 1½ units unassigned credit in History
SFU History 218 (3)

HUMAN DEVELOPMENT

33-100 Human Insight and Group Encounter

3 sem. hrs.

Teaches student to express more adequately emotions and ideas about himself and others. These improved inter-personal skills acquired through insight gained in lectures, seminars, and group dynamics. Includes following concepts: need orientation, self-awareness, maturity, emotions, sex roles, self-disclosure, body-mind congruency, man's search for meaning.

Prerequisite: Nil
Lecture: 1 Seminar: 1
No transfer credit

33-100 Explorations in Personal Growth

0 sem. hrs.

An opportunity to consider new ways of relating to others and of understanding one's self. Members experience different patterns of interaction within the supportive framework of the small group. Non-verbal experience included. Needs and wishes of members determine direction of group.

Prerequisite: Nil
Seminar: 2 hrs.
No transfer credit

33-120 Planning to Commit Marriage

0 sem. hrs.

A 10-week marriage course covering vital aspects of married life: communication in marriage, psychology of man and woman, deeper needs and maturity, sex and sexuality, financial responsibilities, parenthood and child-rearing, celebrating a marriage, services available to families, the couple in their community.

Prerequisite: Nil
Lecture: 1 Seminar: 1
No transfer credit

33-130 Human Sexuality

0-1 sem. hrs.

Provides facts concerning human sexuality to enable student to examine his own attitudes in relation to social attitudes, practices, and belief in various communities and subcultures. Seminars and lectures focus on human anatomy and sexual responses, sex role identification, homosexuality, bisexuality, abortion, and contraception.

Prerequisite: Nil
Lecture: 2
No transfer credit

HUMANITIES

34-100 20th-Century Man

3 sem. hrs.

An interdisciplinary approach to world literature in the 20th century to give student an understanding of the 20th-century mind as reflected in works of modern writers. Introduces major issues relating to the human condition in the present century. Works of imaginative literature used to illustrate problems such as alienation, evil, freedom, morality and science, myth-making, and dehumanization. Faculty members from psychology, history, and philosophy lecture on topics related to works discussed.

Prerequisite: Nil
Lecture: 4
Transferability:
UBC 1½ units unassigned credit in Humanities
SFU 3 unassigned credits in Arts

34-110 European Thought and Culture

3 sem. hrs.

A study of major developments in European thought and culture from the later Roman Empire to the Renaissance. Examines problems in art, literature, philosophy, science, religion, and society, with emphasis on their inter-relationships. Shows certain cultural and intellectual movements which have shaped modern mind. Humanities 34-100 (34-402) provides a background for further studies in areas such as art, literature, philosophy, and religion.

Prerequisite: Nil
Lecture: 2 Seminar: 2
Transferability:
UBC 1½ units unassigned credit in Humanities
SFU 3 unassigned credits in Arts

34-120 European Cultural Change

3 sem. hrs.

A study of major developments in European thought and culture from the Protestant Reformation to the present. Examines problems in art, literature, philosophy, science, religion, and society, with emphasis on their inter-relationships. Shows how certain cultural and intellectual movements have shaped the modern mind. Humanities 34-120 provides a background for further studies in areas such as art, literature, philosophy, science, religion, and society.

Prerequisite: Nil, but 34-110 recommended
Lecture: 2 Seminar: 2
Transferability:
UBC 1½ units unassigned credit in History
SFU 3 unassigned credits in History

34-130 Frontiers of Thought

3 sem. hrs.

An introductory appreciation of the frontiers of thought in the areas of: (1) Man and His World, (sciences); (2) Man and His Society, (social sciences); (3) Man and His Mind, (philosophical concepts). Specialized disciplines contributing to our understanding of these areas examined. Presentations are non-technical and assume no previous acquaintance with subject matter. Primarily for those whose programmes would not normally include these disciplines.

Prerequisite: Nil
Lecture: 4
No transfer credit

34-140 20th-Century Man in Contemporary Literature

3 sem. hrs.

An interdisciplinary approach to contemporary world literature to give some understanding of the 20th-century mind as reflected in works of contemporary writers. Introduces major issues relating to the human condition in the 20th century. Faculty members from psychology, history, and philosophy lecture on topics related to works discussed.

Prerequisite: Nil
Lecture: 4
Transferability:
UBC 1½ units unassigned credit in Humanities
SFU 3 unassigned credits in Arts

INTERIOR DESIGN

68-100 Drawing for Interior Design

1 sem. hr.

The use of pencil, ink, and water colors, or casein painting techniques, as applied to presentation of sketches. Basic drawing and sketching studied with emphasis on perspective and proportion, anatomy and tone values.

Prerequisite: Nil
Laboratory: 3
No transfer credit

68-101 Introduction to Color

1 sem. hr.

Psychological and physical representation of color in relation to space, form, texture, and light. Includes theory and analysis of color with application to residential and commercial interior design.

Prerequisite: Complete color vision
Lecture: 2
No transfer credit

68-102 Italian and French Furniture

2 sem. hrs.

History of furniture, beginning with Egyptian, Greek, and Roman styles, followed by a detailed study of Italian and French. Includes architectural settings and furniture and decorative motifs. Sketches of furniture and room settings required.

Prerequisite: Nil
Lecture: 3
No transfer credit

68-104 Materials of Design

1 sem. hr.

A study of materials (plaster, glass, metal, masonry, wood, plywood, etc.) in relation to the building industry. Emphasis on integrating these into the well-designed interior.

Prerequisite: Nil
Lecture: 1
No transfer credit

68-110 Theory of Design

2 sem. hrs.

Analysis of man's physical and esthetic needs for his buildings. Introduction to the principles of design (balance, harmony, rhythm), and how space is ordered and defined through the use of line, area, value, color, texture, and light.

Prerequisite: Nil
Lecture: 3
No transfer credit

68-120 Drafting and Perspective

3 sem. hrs.

Drafting in pencil, pen and ink. A study of three-dimensional objects and interior spaces to be represented in two and three dimensions on paper.

Prerequisite: Nil
Laboratory: 9
No transfer credit

68-200 Drawing for Interior Design

1 sem. hr.

Explores the use of various common and useful wet and dry media to provide skills and insight for interior design presentation renderings and illustration. Stresses drawing methods appropriate to various media.

Prerequisite: 68-100
Laboratory: 3
No transfer credit

68-203 English and American Furniture

3 sem. hrs.

English and American furniture styles from Gothic, Renaissance, and Neoclassic to the Modern period. Includes architectural settings as well as the furniture and decorative motifs. Sketches of furniture and room settings required.

Prerequisite: Nil
Lecture: 3
No transfer credit

68-205 Materials for Interior Design

1 sem. hr.

A study of applied or "decorative" materials specified for commercial and residential interiors. The properties and care of natural and synthetic fibres examined with reference to manufacture of carpets, fabrics, and wall coverings.

Prerequisite: Nil
Lecture: 2
No transfer credit

68-210 Theory of Residential Design

2 sem. hrs.

Theory of residential interior design in the contemporary and traditional architecture forms. Analysis of interior spaces, esthetics, and function, as well as furniture requirements and planning. Includes a study of architectural concepts and works of Frank Lloyd Wright and Walter Gropius.

Prerequisite: 68-110
Lecture: 3
No transfer credit

68-220 Residential Interior Design**3 sem. hrs.**

Contemporary and traditional residential interior design, including space planning, furniture layout and selection, design in elevation drawing, selection of materials, and perspective drawing and rendering. Drafting and design work consists of such projects as a student's bedroom, a contemporary and traditional house, and other related domestic interiors.

Prerequisite: 68-120
Laboratory: 9
No transfer credit

68-221 Rendering and Presentation**1 sem. hr.**

Techniques, methods, and materials used by interior designers for rendering and presentation of interior design work. Rendering consists of perspective drawings in the Residential Interior Design 68-220 course, as well as sketches from magazines.

Prerequisite: 68-120
Laboratory: 3
No transfer credit

68-310 Theory of Office Interior Design**2 sem. hrs.**

Basic theory of commercial interior design, including office planning, public lounge areas, and small commercial eating facilities. A study of interior space regarding esthetics and function, as well as space layout and furniture requirements. Architectural concepts and work of Ludwig Mies Vander Rohe studied. Students visit various office installations.

Prerequisite: 68-210
Corequisite: 68-320
Lecture: 2
No transfer credit

68-320 Office Interior Design**3 sem. hrs.**

Practical problems in designing commercial office interiors. Solutions may be presented in the form of floor plans, furniture layout and selection, design in elevation drawing, selection of materials and perspective drawing, rendering, and photographing scale models. Drafting and design work consists of such projects as an apartment lobby, a travel agency, a landscaped office, and a daytime restaurant. Students visit furniture factories and make drawings of custom office units for factory fabrication.

Prerequisite: 68-220
Corequisite: 68-310
No transfer credit

68-321 Graphic Presentation**1 sem. hr.**

A study of techniques, methods, and materials used by interior designers for rendering and presentation of interior design work. Rendering consists of perspective drawings done in Commercial Interior Design 68-320 course, as well as sketches from magazines.

Prerequisite: 68-221
Laboratory: 3
No transfer credit

68-380 Interior Design Work Experience**1-5 sem. hrs.**

As part of the third-semester interior design programme, student placement work experience may be in furniture, drapery, carpet, paint, or wallpaper departments of retail outlets or studios. Credits will vary depending on total hours of employment.

Prerequisite: Completion of one year of Interior Design Programme
Seminar: 1 Field experience — TBA
No transfer credit

68-405 Projects in Interior Design**1 sem. hr.**

Practical know-how and written specifications for actual ordering and installation of products. Study includes specifications, estimating, and installation of drapery, upholstery, carpeting, wallpaper and paint. Students also make analysis of the Canadian furnishings market.

Prerequisite: Completion of three semesters of Interior Design
Lecture: 2
No transfer credit

68-406 Special Projects in Design**2 sem. hrs.**

Small short-term projects in commercial or residential design. Students make quick presentation of projects: e.g. doctor's office, theatre lobby, showroom, display, board room, public lounge, etc.

Prerequisite: Completion of three semesters of Interior Design
Laboratory: 6
No transfer credit

68-410 Theory of Hotel-Motel Interior Design**2 sem. hrs.**

Emphasis on hotel and motel design of sleeping accommodations, public lounges, restaurants, kitchens, and cocktail lounges. Analysis of interior spaces regarding esthetics and function, as well as space layout and furniture requirements. Students analyse various contemporary interior spaces, visiting local commercial offices and hotels.

Prerequisite: 68-310
Corequisite: 68-420
Lecture: 3
No transfer credit

68-420 Hotel-Motel Interior Design**3 sem. hrs.**

Practical problems in designing commercial hotel-motel interiors involving assumed conditions. Solutions may be presented in the form of space planning, furniture layout and selection, design in elevation drawing, selection of materials, and perspective drawing and rendering. Drafting and design work consists of such projects as a hotel-motel suite, public lounge, restaurant, kitchen, and cocktail lounge. Students detail custom hotel units for factory fabrication.

Prerequisite: 68-320
Corequisite: 68-410
Laboratory: 9
No transfer credit

68-421 Graphic Presentation**1 sem. hr.**

A continuation of Interior Design 68-321, studying techniques, methods, and materials used by interior designers for rendering and presentation of interior design work. Rendering consists of perspective drawings related to Commercial Interior Design 68-420.

Prerequisite: 68-321
Laboratory: 3
No transfer credit

LAW ENFORCEMENT**62-101 Probation and Parole****3 sem. hrs.**

Origins and philosophy of probation and parole and their roles in law enforcement process. Developments such as "half-way houses", "day parole", and "work releases" studied. Controversial programmes such as preventive detention, conjugal visits, and mandatory parole examined.

Prerequisite: Nil
Lecture: 1x3
No transfer credit

62-102 Criminal Law and the Offender**3 sem. hrs.**

A study is made of the division of responsibility between the federal and provincial governments as set out in the BNA Act with respect to criminal law and administration of justice. Criminal Code of Canada, the Narcotic Control Act, the Food and Drug Act, and other federal and provincial statutes studied. Canadian court system examined with emphasis on the B.C. structure.

Prerequisite: Nil
Lecture: 1x3
No transfer credit

62-103 Community Relations**3 sem. hrs.**

This course furthers the understanding, attitudes, skills, and knowledge of members of police forces and/or correctional agencies concerning their leadership roles in the community; also their understanding of ways to communicate the functions of law enforcement and/or correctional agencies to citizenry, and to explore methods of coping with persons under stress in today's complex environment. Techniques discussed that may be used to allay suspicions and hostilities which uniformed law enforcement officers and certain members of sub-groups of society are said to have toward each other.

Prerequisite: Nil
Lecture: 1x3
No transfer credit

62-104 The Prison Community**3 sem. hrs.**

A study of sociological processes in the prison community. Inmate and staff communities studied individually and as they interact. Primarily for persons employed in correctional areas or those aiming for a career.

Prerequisite: Nil
Lecture: 1x3
Transferability: To be determined

62-106 Organisation of Police and Correctional Services**3 sem. hrs.**

The evolving role of police in crime prevention and protection of life and property. Organisation of private, provincial, and federal correctional agencies, probation, institutions, parole, and rehabilitation of offender examined. The reality of law enforcement and corrections studied and compared with certain popular misconceptions of the career area.

Prerequisite: Nil
Lecture: 2x2
No transfer credit

62-140 Interviewing**3 sem. hrs.**

The dynamics of interpersonal relationships which may be incorporated into interviewing situations; verbal and non-verbal communication, feedback, barriers to effective interviewing, and structures and functions of various types of interviews. A framework that can be used to evaluate effectiveness of interviewing is provided so that students can more accurately interpret interviewing occurrences. practical classroom experience gained through involvement in role playing, small group discussion, case analysis, and actual interviewing.

Prerequisite: Nil
Lecture: 1x3
No transfer credit

62-107 Community Agencies**3 sem. hrs.**

The development of institutions to meet problems of urban-industrial society, with particular reference to lower Fraser Valley and Greater Vancouver areas. An examination of typical federal, provincial, municipal, and private agencies. Problems faced by agencies; how to get service from agencies.

Prerequisite: Nil
Lecture: 1x3
No transfer credit

62-108 Crime Causation**3 sem. hrs.**

Describes several types or levels of theory concerning causes of crime and delinquency — cultural, sociological, interpersonal, and individual. An attempt is then made toward integration of theory and practical application.

Prerequisite: Nil

Lecture: 2x2

Transferability: To be determined

LITERATURE**91-101 The Canadian in Time and Place****3 sem. hrs.**

The rationale behind this course is primarily that of exposure to the wealth of Canadian literature. The focus is on works of prose — novels, essays, and short stories — with occasional reference to poetry. Explores varieties of expression in terms of milieu and region, and examines qualities of rural and urban literature. The essential dichotomy that is Canada — the seeming splits between east and west, town and country, French and English — explored in detail.

Prerequisite: Nil

Lecture: 1x2, 2x1

Transferability:

UBC 1½ units English 100

SFU 3 unassigned credits in Literature

91-102 Order from Chaos**3 sem. hrs.**

A study of selected poetry and prose by significant modern writers. Student studies individual works in detail, focusing on the writer's attempt to transform the chaos of personal and social experience into the order of a disciplined work of art. Course assumes, as its major focus, an evaluation of the resonance between a writer's form and content. Designed for those anxious to develop critical awareness and interested in relating personal viewpoints to reading experiences.

Prerequisite: Nil

Lecture: 2x2

Transferability:

UBC 1½ units English 100

SFU 3 unassigned credits in Literature

91-104 Contemporary Prose: The Reader's Quest**3 sem. hrs.**

This course gives the student an understanding of complexities arising from the modern industrial and technological order by providing the opportunity to read and discuss works of contemporary prose writers.

Prerequisite: Nil

Lecture: 4x1

Transferability:

UBC 1½ units English 100

SFU No transfer credit

91-105 The Isolated American**3 sem. hrs.**

A study of novels and short stories, or both, of major authors such as Hawthorne, Melville, James, and Hemingway. There is close analysis of themes and literary devices, as well as consideration of characteristic concerns in American fiction, such as isolation from society and achievement of a satisfactory sense of self.

Prerequisite: Nil

Lecture: 4x1

Transferability:

UBC 1½ units English 100

SFU 3 unassigned credits in Literature

91-106 The Contemporary Novel**3 sem. hrs.**

Course caters to individual interests and pursuits in relation to the contemporary novel. Illustrates scope of the novel and provides student with techniques for appreciation, analysis, and criticism. Considers various modes such as surrealism, black humor, stream of consciousness, depersonalisation, heightened realism, and the autobiographical "non-novel." By "contemporary" the course means the qualities of alienation, fragmentation, and breakdown that define the modern novel.

Prerequisite: Nil

Lecture: 2x2

Transferability:

UBC 1½ units English 100

SFU 3 credits English 101

91-108 The Bible as Living Literature**3 sem. hrs.**

A study of *literature* of the Bible. Concentrates on Old Testament and Christ's life and teachings. Genres include the short story, poetry, drama, history, biography, wisdom, and apocalyptic literature. Attention given to archaeological discoveries of ancient tablets and manuscripts, and to myths and legends rooted in antiquity which are common to many cultures — ancient and modern.

Prerequisite: Nil

Lecture: 4x1

Transferability:

UBC 1½ units English 100

SFU 3 unassigned credits in Literature

91-109 Man in Conflict**3 sem. hrs.**

Consists of works which reflect the major trends in English literature of the transitional period 1870-1918. The student considers the revolution in ideas and social forces, revealed through close study of specific works.

Prerequisite: Nil

Lecture: 4x1

Transferability:

UBC 1½ units English 100

SFU 3 unassigned credits in Literature

91-308 Literary Adaptations of the Bible**3 sem hrs.**

A study of literary adaptations of the Bible in the poetry, drama, and novels of major writers of English literature from the 14th to the early 20th centuries.

Prerequisite: First-year standing, including 91-108

Lecture: 4x1

Transferability:

UBC to be determined

SFU to be determined

91-310 19th-Century Continental Literature in Translation**3 sem. hrs.**

An introduction to major 19th-century works in various genre. Besides analysis of representative literary techniques, students consider aspects of the literary and cultural complex from which these major works were drawn; for example, such developments as romanticism and naturalism are studied.

Prerequisite: First-year standing

Lecture: 2x2

Transferability:

UBC 1½ units unassigned credit in Literature

SFU 3 credits English 225

91-311 20th-Century Continental Literature in Translation**3 sem. hrs.**

An introduction to major 20th-century works in various genre. Besides analysing representative literary techniques, students consider aspects of the literary and cultural complex, e.g. Soviet censorship or French existentialism.

Prerequisite: First-year standing

Lecture: 2x2

Transferability:

UBC 1½ units unassigned credit in Literature

SFU 3 credits English 225

91-312 Language Studies and Literary Interpretation: Stylistics**3 sem. hrs.**

Various concepts of style, and current theoretical positions about language and its use, are analysed. Readings include poetry by Dylan Thomas, e. e. cummings; novels by Hemingway and Joyce Cary; as well as essays in linguistics and language.

Prerequisite: any two of: Literature 91-101 to 114; Communications 92-100, 110, 120;

Theatre 95-100; Creative Writing 96-100; Modern Languages 26-121 or 141

Lecture: 2x1

Transferability:

UBC 1½ units unassigned credit in second-year Literature

SFU 3 credits English 212

91-313 Studies of Major Writers**3 sem. hrs.**

Critical approaches are employed in examining and evaluating works of major writers. Writers chosen are of central importance to literary history, including Dickens, Donne, and Shaw. The student studies both the writer's principal works and appropriate works of his contemporaries, with emphasis on understanding the writer's central themes. The student may also read the writer's non-literary work, a biography, and appropriate works of literary criticism.

Prerequisite: First-year standing

Lecture: 2x2

Transferability:

UBC 1½ units unassigned credit in second-year Literature

SFU 3 unassigned credits in Literature

91-314 The Poetic Presence**3 sem. hrs.**

A consideration of the poetry of Shakespeare, Donne, and G. M. Hopkins. Course traces major themes and techniques by developing a perspective and framework for approaching poetry with critical vision and imagination.

Prerequisite: First-year standing

Lecture: 2x2

Transferability:

UBC 1½ units English 200

SFU 3 credits English 203

91-315 The Comic Voice: Studies in Comedy**3 sem. hrs.**

Representative works studied and related to theories and traditions of comedy. A diversity of novels and drama, such as Shakespeare's *Twelfth Night*, Dickens' *The Pickwick Papers*, and Synge's *The Playboy of the Western World*, demonstrates the scope and depth of the comic genre.

Prerequisite: First-year standing

Lecture: 2x2

Transferability:

UBC 1½ units English 200

SFU 3 credits English 203

91-316 Readings in the English Literary Tradition: 14th to 18th Centuries**3 sem. hrs.**

Representative works from literature of the 14th through 18th centuries studied and appropriately related to English literary tradition.

Prerequisite: First-year standing

Lecture: 2x2

Transferability:

UBC 1½ units English 200

SFU 3 unassigned credits in Literature

91-317 Readings in the English Literary Tradition: 18th to 20 Centuries**3 sem. hrs.**

Representative works from literature of the 18th, 19th, and early 20th centuries studied and appropriately related to English literary tradition.

Prerequisite: First-year standing

Lecture: 2x2

Transferability:

UBC 1½ units English 200

SFU 3 unassigned credits in Literature

91-318 The Science-Fiction Novel: A Critical Approach**3 sem. hrs.**

The reading of a selection of science-fiction works by such writers as James Blish, Isaac Asimov, Robert A. Heinlein, Arthur C. Clarke; and works of fantasy, including C. S. Lewis and J. R. R. Tolkien. Critical works related to the field are examined.

Prerequisite: First-year credit

Lecture: 2x2

Transferability:

UBC No transfer credit

SFU 3 credits English 203

91-319 The English Novel: Its Development**3 sem. hrs.**

Traces development of the English novel from 18th to 20th century. Styles and themes of representative novelists of the period studied.

Prerequisite: First-year standing

Lecture: 2x2

Transferability:

UBC 1½ units English 200

SFU 3 credits English 203

MARKETING**84-100 Retail Merchandising****3 sem. hrs.**

Merchandising principles, practices, and processes related to the total marketing process. Includes the consumer — his importance and behavior — buying methods, sources of supply, selling, sales promotion methods and media, inventory control, human relations, advertising and display. Laboratory workshop and seminar sessions, individual projects, plus practical application of theories studied.

Prerequisite: Nil

Lecture: 2 Seminar: 1 Student-directed Learning: 1

No transfer credit

84-120 Introduction to Marketing**3 sem. hrs.**

A descriptive survey of basic Canadian marketing functions and institutions such as distribution channels, merchandising, and sales promotion of products for industrial and consumer markets.

Prerequisite: Nil

Lecture: 2x1 Seminar: 2x1

No transfer credit

84-210 Dynamic Selling and Effective Verbal Communications**3 sem. hrs.**

An intensive study of techniques used in selling goods and services, with the opportunity of practising some of them. Includes consumer behavior and aspects of psychology in the process of selling, as well as methods of preparing and delivering several types of speeches.

Prerequisite: Nil

Lecture: 2 Seminar: 1

No transfer credit

84-290 Marketing Management**3 sem. hrs.**

An advanced, detailed study of market planning, market research, practices of middlemen and their role in the marketing process. Problems inherent in wholesaling, product mix, sales promotion, investment, warehousing, and shipping discussed along with case studies.

Prerequisite: 84-100 or 84-120

Lecture: 2 Seminar: 1 Student-directed Learning: 1

No transfer credit

84-380 Work-Experience Preparation**2 sem. hrs.**

A preparation programme to be taken prior to 84-381. Job instructions and companies' policies discussed. Field trips to work stations. Classes three hours a day, thrice-weekly for five weeks.

Prerequisite: 84-100, 84-210 and second-year standing

Hours per week: 9

No transfer credit

84-381 Merchandising Work-Experience**1-10 sem. hrs.**

Includes 300-400 hours paid work in a retail outlet under College supervision.

Prerequisite: 84-100 and permission of instructor

No transfer credit

84-382 Merchandising Work-Experience Seminar**3 sem. hrs.**

Students meet once weekly to discuss experiences of the course.

Prerequisite: 84-100 taken concurrently with 84-381

Seminar: 3

No transfer credit

84-490 Planning and Supervision**3 sem. hrs.**

This advanced course in retail merchandising takes advantage of work done during work-experience programme. Students study and practise methods of planning, budgeting, and programming resources. Extensive use of case studies and assignments to simulate business conditions.

Prerequisite: 84-100, 84-210, 84-381

Lecture: 1x2 Seminar: 1x2 Student-directed Learning: 1

No transfer credit

MATHEMATICS**44-100 Mathematics: Reality or Unreality****3 sem. hrs.**

Designed to give the liberal arts student insight into use of mathematics and the role of mathematicians in the development of models of widely differing real-life situations.

Prerequisite: Nil

Lecture: 2 Seminar: 1

Transferability:

UBC with 44-200 3 units unassigned credit in Mathematics (no credit in Science)

SFU 3 unassigned credits in Mathematics

44-101 Basic Mathematics**3 sem. hrs.**

Mathematical skills increased by reviewing arithmetic practices and then studying algebraic and trigonometric procedures. Topics include integers, rational expressions, radical expressions, linear and quadratic expressions, graphing, and the trigonometry of right-angled triangles.

Prerequisite: Nil

Tutorial: 3x1

No transfer credit

44-112 College Mathematics**3 sem. hrs.**

Students with Math 11 are prepared in one semester to enter courses requiring Math 12 or equivalent. Others see this course with 44-212 as a "non-Science credit" applicable to certain fields of study at UBC which do not require calculus. Includes algebra, geometry, and trigonometry. Serves as prerequisite for Math 131 (Algebra) and 120 (Calculus).

Prerequisite: B.C. Math 11

Lecture: 3x1 Tutorial: 1x1

Transferability:

UBC with 44-212 Mathematics 130

SFU 3 unassigned credits in Mathematics

44-120 Calculus**3 sem. hrs.**

Introduction to differential and integral calculus. Techniques for handling rational functions. Applications.

Prerequisite: B.C. Math 12 or equivalent, or permission of instructor

Lecture: 3 Tutorial: 1

Transferability:

UBC with 44-220 Math 100

SFU Math 151

44-130 Mathematics in the Making**3 sem. hrs.**

An introduction to sets, functions, operations; these concepts applied to development of number systems (integers, rationals, real and complex numbers). Introduces the use of complex numbers.

Prerequisite: B.C. Math 11 or equivalent, or permission of instructor

Lecture: 3 Tutorial: 1

Transferability:

UBC 1½ units unassigned credit in Math

SFU 3 unassigned credits in Math

44-131 Vectors and Matrices**2 sem. hrs.**

Elementary introduction to vector spaces, matrices and determinants, applications to the solution of simultaneous equations. This course, with calculus, is taken by most students who wish to attend UBC Science and Applied Science.

Prerequisite: B.C. Math 12 or equivalent, or permission of instructor

Lecture: 2

Transferability:

UBC Math 121

SFU with 44-231 Math 232

44-140 Elements of Calculus with Applications**3 sem. hrs.**

A brief introduction to differential and integral calculus with heavy emphasis on application in fields of social and biological sciences and commerce. Coupled with Mathematics 44-212 this course provides a broad introduction to uses of mathematics in aforementioned fields.

Prerequisite: B.C. Math 11 or equivalent

Lecture: 4

Transferability:

UBC 1½ units unassigned credit in Mathematics

SFU Mathematics 150 (3 credits)

44-212 Finite Mathematics**3 sem. hrs.**

The study of counting processes, including mathematical induction, binomial theorem, elementary sequences and series, combinatorics, elementary probability theory, and linear programming.

Prerequisite: Math 112 or B.C. Math 11

Lecture: 3x1 Tutorial: 1x1

Transferability:

UBC with 44-112 or 44-120 Math 130

SFU Math 100

44-220 Calculus**3 sem. hrs.**

Continues 44-120 to cover transcendental functions and introduces the analysis of functions of one variable. Completes requirements for university transfer credit in first-year calculus.

Prerequisite: 44-120 or equivalent

Lecture: 3 Tutorial: 1

Transferability:

UBC with 44-120 Math 100

SFU Math 152

44-231 Linear Algebra**2 sem. hrs.**

Continues Mathematics 44-131, presenting vector spaces other than \mathbb{R}^n and developing the idea of an abstract vector space. Linear transformations and their eigenvectors. Isomorphism.

Prerequisite: 44-131 (students having credit for 44-132 will not receive credit for 44-231)

Lecture: 2x1

Transferability:

UBC with 44-331 Math 221

SFU with 44-131 Math 232

44-290 Modern Algebra**2 sem. hrs.**

An introduction to algebraic structure with reference to the number system, polynomials, and finite structures.

Prerequisite: 44-131

Lecture: 3x1

Transferability:

UBC Math 222

SFU Math 142

44-320 Calculus**3 sem. hrs.**

Third semester of the calculus includes complex numbers, differential equations, sequences and series, and the functions of several variables.

Prerequisite: 44-220

Lecture: 3x1 Tutorial: 1x1

Transferability:

UBC with 44-420 Math 200

SFU Math 251

44-331 Linear Algebra**2 sem. hrs.**

An introduction to inner product spaces and linear operators with applications from the physical sciences.

Prerequisite: 44-231

Lecture: 2x1

Transferability:

UBC with 44-231 Math 221

44-350 Quantitative Methods**3 sem. hrs.**

Applications of mathematics to business with emphasis on linear models. Primarily for prospective commerce students.

Prerequisite: 44-112, 44-212 and 44-131

Lecture: 3x1

Transferability:

UBC with 44-450 Commerce 110

44-420 Calculus**3 sem. hrs.**

A presentation of multiple integrals, vector-valued functions (curves), and vector calculus (potential theory).

Prerequisite: 44-320

Lecture: 3x1 Tutorial: 1x1

Transferability:

UBC with 44-320 Math 200

SFU 3 unassigned credits in Math

44-450 Quantitative Methods**3 sem. hrs.**

Applications of mathematics to business with emphasis on non-linear models. Primarily for prospective commerce students.

Prerequisite: 44-350

Lecture: 2x1 Tutorial 2x1

Transferability:

UBC with 44-350 Commerce 110

MODERN LANGUAGES

Courses offered are mostly two semesters. The second semester's work should be taken immediately after the first, otherwise much continuity will be lost. There may be difficulty in obtaining transfer credit for a single semester of a course that is designed as a two-semester unit. Where instructor's permission is required to take a course, it should be obtained in writing before registration.

All language courses are transferable to SFU with unassigned credit, but all students will be tested and placed in the appropriate course.

26-100 Basic Russian**3 sem. hrs.**

First half of a two-semester sequence for beginners with no knowledge of Russian, providing conversation, grammar, and basic skills of reading and writing the language. Modern Languages 26-200 should be taken immediately after 26-100.

Prerequisite: Nil

Lecture: 3 Seminar: 1

Transferability:

UBC with 26-200 Russian 100 (3)

SFU 3 unassigned credits in Modern Languages

26-120 Basic German**3 sem. hrs.**

For those with little or no experience in the language.

Prerequisite: Nil

Seminar: 4

Transferability:

UBC with 26-220 German 100 (3)

SFU 3 unassigned credits in Modern Languages

26-121 German Language**3 sem. hrs.**

Language and introductory literature for those with secondary school German or a German background.

Prerequisite: 26-220, or permission of instructor

Seminar: 4

Transferability:

UBC with 26-221 German 200 (3)

SFU 3 unassigned credits in Modern Languages

26-140 Basic French**3 sem. hrs.**

First half of a two-semester sequence to enable student to express himself in both basic conversational and written French through an intensive oral and written approach.

Prerequisite: Up to grade 10 French or equivalent

Lecture: 1 Seminar: 4

Transferability:

UBC with 26-240 French 110 (3) or 100 (3)

SFU 3 unassigned credits in Modern Languages

26-141 French Language**3 sem. hrs.**

First half of a two-semester sequence providing exercises in spoken and written French. Introduces better-known modern French writers and some elements of French-Canadian life and letters.

Prerequisite: French 12, or permission of instructor

Lecture: 3 Laboratory: 1 Tutorial: 1

Transferability:

UBC with 26-241 French 120 (3)

SFU 3 unassigned credits in Modern Languages

26-160 Basic Spanish**3 sem. hrs.**

This course enables one to express himself in both basic conversational and written Spanish through an intensive oral and written approach. Introduces the history, culture, and society of the Hispanic World.

Prerequisite: Nil

Seminar: 4x1

Transferability:

UBC with 26-260 Spanish 100 (3)

SFU 3 unassigned credits in Modern Languages

26-180 Language, Mind, and Communication**3 sem. hrs.**

An interdisciplinary introduction to linguistics, approaching the study of language through disciplines such as psychology (acquisition, perception, meaning); sociology and anthropology (culture, society, language); education (learning and language); and communication (mass media and influencing people with language).

Prerequisite: Nil

Lecture: 2 Seminar: 2

Transferability:

UBC with 26-280 Linguistics 100 (3)

SFU Linguistics 100

26-200 Basic Russian**3 sem. hrs.**

A continuation of a two-semester course for beginners providing conversation, grammar, and the basic skills of reading and writing the language.

Prerequisite: 26-100

Lecture: 4

Transferability:

UBC with 26-100 Russian 100 (3)

SFU 3 unassigned credits in Modern Languages

26-220 Basic German**3 sem. hrs.**

Second semester of 26-120. Students with little or no previous experience of the language continue to develop basic speaking and reading skills, including vocabulary, idioms, and grammar.

Prerequisite: 26-120

Lecture: 4

Transferability:

UBC with 26-120 German 100 (3)

SFU 3 unassigned credits in Modern Languages

26-221 German Language**3 sem. hrs.**

Consists mainly of language and introductory literature for those with secondary school German or a German language background.

Prerequisite: 26-121

Lecture: 4

Transferability:

UBC with 26-121 German 200 (3)

SFU 3 unassigned credits in Modern Language

26-240 Basic French**3 sem. hrs.**

This course, sequential to 26-140, enables one to express himself in both basic conversational and written French through an intensive oral and written approach.

Prerequisite: 26-140, or permission of instructor

Lecture: 4

Transferability:

UBC with 26-140 French 110 (3) or 100 (3)

SFU 3 unassigned credits in Modern Languages

26-241 French Language**3 sem. hrs.**

This course, sequential to 26-141, gives one a good grounding in both written and spoken French, and introduces some of the best-known modern French writers.

Prerequisite: 26-141, or permission of instructor

Lecture: 3 Tutorial 1

Transferability:

UBC with 26-141 French 120 (3)

SFU 3 unassigned credits in Modern Languages

26-260 Basic Spanish**3 sem. hrs.**

Course enables student to express himself in both basic conversational and written Spanish through an intensive oral and written approach. Introduces the history, culture, and society of the Hispanic World.

Prerequisite: 26-160

Seminar: 4x1

Transferability:

UBC with 26-160 Spanish 100 (3)

SFU 3 unassigned credits in Modern Languages

26-280 Language and Meaning**3 sem. hrs.**

An interdisciplinary course on language, especially on meaning in language: philosophy (logic); politics (art of rhetoric); psychology (analysis of meaning); mathematics (mathematics as a language, mathematics and its applications to generative grammar); literature (stylistics in prose and poetry); linguistics (generative syntax; generative semantics). With courses in logic and mathematics, this one provides a good foundation for computer science.

Prerequisite: 26-180 previously or concurrently taken, or permission of instructor

Seminar: 2x2

Transferability:

UBC with 26-180 Linguistics 100 (3)

SFU No transfer credit

26-300 Intermediate Russian**3 sem. hrs.**

Will increase student's knowledge of Russian grammar, idioms, syntax, vocabulary. Aspects of Soviet everyday life studied.

Prerequisite: 26-200

Seminar: 4x1

Transferability:

UBC with 24-400 3 units unassigned credit in Russian

SFU 3 unassigned credits in Modern Languages

26-321 Modern German Literature**3 sem. hrs.**

A study of the development of modern German literature from 1880 to 1945, with reference to social and political changes of the time.

Prerequisite: 26-221, or fluency in the language

Seminar: 4

Transferability:

UBC with 26-421 German 310 (3)

SFU 3 unassigned credits in Modern Languages

26-341 French Language and Style**3 sem. hrs.**

Designed to reinforce oral and written skills, containing strong elements of recognized French and French-Canadian literature. Seminars conducted in French.

Prerequisite: 26-241, or permission of instructor

Seminar: 4x1

Transferability: UBC with 26-441 3 units unassigned credit in French

SFU 3 unassigned credits in Modern Languages

26-360 Spanish Language**3 sem. hrs.**

Amplifies knowledge acquired in 26-160 and 26-260, utilizing contemporary excerpts of leading Spanish and Latin American newspapers, magazines and, to a lesser extent, literature. Emphasis on culture, conversation, and written composition.

Prerequisite: 26-260

Lecture 3 Laboratory: 1

Transferability:

UBC with 26-460 Spanish 200 (3)

SFU 3 unassigned credits in Modern Languages

26-400 Intermediate Russian**3 sem. hrs.**

A continuation of 26-300. Will increase student's knowledge of Russian grammar, idioms, syntax, and vocabulary. Aspects of everyday Soviet life studied.

Prerequisite: 26-300

Seminar: 4

Transferability:

UBC with 26-300 3 units unassigned credit in Russian

SFU 3 unassigned credits in Modern Languages

26-421 Modern German Literature**3 sem. hrs.**

Social and political changes since 1945 studied through the eyes of selected German writers.

Prerequisite: 26-341 or 26-321 or fluency in the language

Seminar: 4

Transferability: with 26-321 German 310 (3)

26-441 French Language and Style**3 sem. hrs.**

Designed primarily to reinforce oral and written skills. Contains strong elements of recognized French and French-Canadian literature, contemporary French writings being used to develop these skills. Seminars conducted in French. Students proceeding to further work in French are given enrichment in both literature and grammar.

Prerequisite: 26-341 or equivalent, or permission of instructor

Seminar: 4

Transferability:

UBC with 26-341 3 units unassigned credit in French

SFU 3 unassigned credits in Modern Languages

26-460 Spanish Language**3 sem. hrs.**

Amplifies knowledge acquired in 26-160, 26-260 and 26-360, utilizing contemporary excerpts of leading Spanish and Latin American newspapers, magazines, and, to a lesser extent, literature. Emphasis on culture, conversation, and written composition.

Prerequisite: 26-360

Lecture: 3 Laboratory: 1

Transferability:

UBC with 26-360 Spanish 200 (3)

SFU 3 unassigned credits in Modern Languages

MUSIC**12-100 Basic Theory****3 sem. hrs.**

Learning to read music and master musical rudiments as far as the first elements of harmony. Previous knowledge of music not required. Required of B. Mus. students not ready to take Music 12-110. Optional for B. Ed. students intending to major in music education.

Prerequisite: Nil

Lecture: 3 Tutorial: 1

Transferability:

UBC 1½ units Music Education 101 for majors in music education

Not transferable to Faculty of Music

12-102 Music Appreciation: 400-1750 A.D.**3 sem. hrs.**

A survey of Western music from earliest beginnings in Gregorian chant to end of the Baroque, i.e. 400-1750 A.D. Historical developments studied through gramophone recordings, supplemented by live performances, with special attention to instruments.

Prerequisite: Nil

Lecture: 3x1

Transferability:

UBC with 12-202 Music 320 (3 units) transferable to Faculty of Arts

12-105 Ensemble — Band**1 sem. hr.**

Problems in performance of ensemble music, with emphasis on rehearsal techniques and conductor-performer relationship.

Prerequisite: Royal Conservatory of Music, Toronto, grade 6 or equivalent, or permission of instructor

Laboratory: 6

Transferability:

UBC with 12-205 Music 152

12-106 College Chorus**1 sem. hr.**

Members study and perform works from all periods requiring chorus of large numbers. Familiarisation with conductor-performer relationship. Exposure to problems in performance of choral music, with emphasis on rehearsal techniques. This is lab for Music 12-151.

Prerequisite: Nil

Corequisite: For music majors 12-151; audition required from non-majors

Laboratory: 3x2

Transferability:

UBC with 12-200 Music 153 or 154

12-110 Theory of Western Music: 400-1750 A.D.**3 sem. hrs.**

An intensive study of elements of Western music from c. 400 to c. 1500 A.D., especially rhythm and pitch; special attention to reading of scores in lecture-room performance, with emphasis on aural comprehension of music in up to three and four parts in simple and compound metres.

Prerequisite: Obligatory for university-transfer programme in music; permission of instructor required for others wishing to take course as elective

Laboratory: 5

Transferability:

UBC with 12-210 Music 100

12-120 History of Western Music: Greece to 1500 A.D.**3 sem. hrs.**

A broad survey of developments in style and form, from earliest-known musical expression in the West to the time of Ockeghem. Emphasis on score reading and analysis of representative music.

Prerequisite: Obligatory for university-transfer programme in music; permission of instructor required for others wishing to take course as elective

Lecture: 3

Transferability:

UBC with 12-200 Music 120

12-130 Class Woodwinds**2 sem. hrs.**

A study (by performance) of the flute, oboe, clarinet, saxophone, and bassoon in preparation for effective teaching of instrumental music. Familiarisation with peculiarities, tone production; and fingering techniques of all woodwind instruments (using both treble and bass clefs).

Prerequisites: Nil

Laboratory: 3

Transferability:

UBC 1 unit Music 142

12-131 Class Brass**2 sem. hrs.**

Techniques for effective teaching of instrumental music. Familiarization with peculiarities, tone production, and fingering techniques of all brass instruments (using both treble and bass clefs).

Prerequisites: Nil

Laboratory:

Transferability:

UBC with 12-132 Music 141

12-132 Class Percussion**2 sem. hrs.**

A study (by performance) of the snare drum, bass drum, cymbals, tympani, mallet, and Latin American rhythm instruments, in preparation for effective teaching of instrumental music. Familiarisation with tone production, maintenance, and adjustment of traditional percussion instruments.

Prerequisites: Nil

Laboratory: 3

Transferability:

UBC with 12-131 Music 141

12-133 Sight Singing**1 sem. hr.**

Introduction to sight singing through so-called "movable do" system. Singing melodies in two basic clefs. Singing of all major, minor, and perfect intervals and of various rhythmic patterns. Also singing of melodies which include rudimentary modulations.

Prerequisites: Nil

Laboratory: 3

Transferability:

UBC ½ unit unassigned credit in Music

SFU No transfer credit

12-140 Piano (Secondary)**1 sem. hr.**

Piano repertoire, technical requirements, aural training, sight reading, accompaniment, improvisation, and keyboard harmony. Available only to majors in B. Mus. (general) programme.

Prerequisite: Nil

Tutorial: ½ hr.

Transferability:

UBC with 12-240 Music 144 (Piano)

12-150 Music Concentration (Instrumental)**2 sem. hrs.**

Tone production, technique, transposition, repertoire, solo performance, ensemble playing, style and development. Open to music majors only in B. Mus. (general) programme.

Prerequisite: Royal Conservatory of Music, Toronto, grade 6 standing on instrument
Corequisite: 12-105

Tutorial: 1

Transferability:

UBC with 12-250 Music 145 (Instrumental)

12-151 Music Concentration (Vocal)**2 sem. hrs.**

Vocal tone production, technique, English diction and vocal instruction, techniques of training voices in choruses.

Prerequisite: Royal Conservatory of Music, Toronto, grade 6 or equivalent on voice or piano

Corequisite: 12-106

Tutorial: 1x½ Seminar: 1x1 Student-directed Learning: 9½x1

Transferability:

UBC to be determined

12-200 Basic Harmony — Advanced Theory**3 sem. hrs.**

Continuing the study of diatonic four-part harmony beyond the foundations laid in Music 12-100. Open as elective to non-music majors.

Prerequisite: 12-100; or permission of instructor

Lecture: 5

Transferability:

UBC 1½ units Music Education 101 for majors in music education. Not transferable to Faculty of Music

12-202 Music Appreciation: 1750 to Present**3 sem. hrs.**

A survey of Western music from pre-classical era to present. Historical developments studied through recordings supplemented by live performances, with special attention to instruments. A suitable elective for general arts students but not available to music majors.

Prerequisite: Nil

Lecture: 3x1

Transferability:

UBC with 12-102 Music 320 (3 units) transferable to Faculty of Arts

12-205 Ensemble — Band**1 sem. hr.**

Problems involved in performance of ensemble music, with emphasis on rehearsal techniques and conductor-performer relationship.

Prerequisite: 12-105

Corequisite: For music majors 12-250; audition required from non-majors

Laboratory: 3x2

Transferability:

UBC with 12-105 Music 152

12-206 College Chorus**1 sem. hr.**

Members study and perform works from all periods requiring chorus of large numbers. Familiarisation with conductor-performer relationship. Exposure to problems in performance of choral music, with emphasis on rehearsal techniques. This is lab for Music 12-251.

Prerequisite: 12-106

Laboratory: 3x2

Corequisite: For music majors 12-251; audition required from non-majors

Transferability:

UBC with 12-106 Music 153 or 154

12-210 Theory of Western Music: 1450-1650 A.D.**3 sem. hrs.**

Mastery of rudiments of Western music with aural and analytical competence in techniques of melody, harmony, and counterpoint as practised from c. 1450 to c. 1650. Special attention to reading of scores in lecture-room performance.

Prerequisite: 12-110

Lecture: 5

Transferability:

UBC with 12-110 Music 100

12-220 History of Western Music: Ockeghem to Byrd**3 sem. hrs.**

Historical survey of development in style and form in Western music from Ockeghem to Byrd. Obligatory in university-transfer programme. Permission of instructor required for others wishing to take course as elective.

Prerequisite: Nil

Lecture: 3

Transferability:

UBC with 12-120 Music 120

12-230 Advanced Class Woodwinds**2 sem. hrs.**

A study (by performance) of the flute, oboe, clarinet, saxophone, and bassoon, in preparation for effective teaching of instrumental music. Familiarisation with peculiarities, tone production, and fingering techniques of woodwind instruments (using both treble and bass clefs).

Prerequisite: 12-130

Laboratory: 3x1

Transferability:

UBC with 12-130 Music 142 (2 units)

12-240 Piano (Secondary)**1 sem. hr.**

Piano repertoire, technical requirements, aural training, sight reading, accompaniment, improvisation, and keyboard harmony. Available only to majors in B. Mus. (general) programme.

Prerequisite: 12-140

Tutorial: ½ hr.

Transferability:

UBC with 12-140 Music 144 (Piano)

12-250 Music Concentration (Instrumental)**2 sem. hrs.**

Tone production, technique, transposition, repertoire, solo performance, ensemble playing, style and development. Open only to music majors in B. Mus. (general) programme.

Prerequisite: 12-150

Tutorial: 1

Transferability: Corequisite: 12-205

UBC with 12-150 Music 145 (Instrumental)

12-251 Music Concentration (Vocal)**2 sem. hrs.**

Vocal tone production, technique, English diction and vocal pedagogy. Techniques of training voices in chorus.

Prerequisite: 12-151

Corequisite: 12-206

Tutorial: ½ hr. Seminar: 1

Transferability:

UBC with 12-351 Music 145 (Voice)

12-300 Intermediate Harmony**3 sem. hrs.**

Continuing the study of harmony beyond the level of 12-200 in music up to four parts, as far as the early chromatic common chords. Open as elective for non-music majors.

Prerequisite: 12-200, or permission of instructor

Lecture: 5

Transferability:

UBC 1½ units Music Education 201 for majors in music education

12-305 Ensemble — Band**1 sem. hr.**

Problems in performance of ensemble music, with emphasis on rehearsal techniques and conductor-performer relationship.

Prerequisite: 12-205

Corequisite: For music majors 12-230; audition required from non-majors

Laboratory: 3x2

Transferability:

UBC ½ unit Large Ensemble

12-306 College Chorus**1 sem. hr.**

Members study and perform works from all periods requiring chorus of large numbers. Familiarisation with conductor-performer relationship. Exposure to problems in performance of choral music, with emphasis on rehearsal techniques. This is lab for Music 12-351.

Prerequisite: 12-206

Corequisite: For music majors 12-351; audition required from non-majors

Laboratory: 3x2

Transferability:

UBC with 12-406 Large Ensemble second year B. Music (general)

12-310 Theory of Western Music: 1600-1750 A.D.**3 sem. hrs.**

Mastery of the rudiments of Western music, gaining aural and analytical competence in techniques of melody, harmony, and counterpoint as practised from c. 1600-1750. Special attention to reading of scores in lecture-room performance, and to imitation of chief styles.

Prerequisite: 12-210

Lecture: 5

Transferability:

UBC with 12-410 Music 200

12-320 History of Western Music: 1600-1750 A.D.**3 sem. hrs.**

A study of development in style and form in Western music from Monteverdi to Bach. Obligatory in university-transfer programme in music. Permission of instructor for others wishing to take course as elective.

Prerequisite: Nil

Lecture: 3

Transferability:

UBC with 12-420 Music 320

12-340 Piano (Secondary)**1 sem. hr.**

Piano repertoire, technical requirements, aural training, sight reading, accompaniment, improvisation, and keyboard harmony. Available only to majors in B. Mus. (general) programme.

Prerequisite: 12-240

Tutorial: ½ hr. Student-directed Learning: 5

Transferability:

UBC with 12-440 Music 244 (1 unit)

12-350 Music Concentration (Instrumental)**2 sem. hrs.**

Tone production, instrumental techniques, transposition, repertoire, solo performance, ensemble playing, and style development. Training to standard of Royal Conservatory of Music, Toronto, grade 8 examination in one of following instruments: oboe, flute, clarinet, bassoon, saxophone, trumpet, trombone, french horn, baritone, euphonium, tuba, percussion, violin, viola, cello, and string bass. Open only to music majors in B. Mus. (general).

Prerequisite: 12-250

Corequisite: 12-305

Tutorial: 1

Transferability:

UBC with 12-450 Music 245 (Instrumental)

12-351 Music Concentration (Vocal)**2 sem. hrs.**

Vocal tone production, tone color, English, Italian, French, Latin, and German diction; music (vocal) from Baroque, Classical, Romantic, and contemporary periods, and an understanding of stylistic and interpretative characteristics of each. Students acquire knowledge of library research methods pertaining to each, also knowledge of library research methods pertaining to vocal solo and choral groups.

Prerequisite: 12-251

Corequisite: 12-306

Tutorial: ½ hr. Seminar: 1

Transferability:

UBC with 12-251 Music 145 (Voice)

12-400 Advanced Harmony**3 sem. hrs.**

Continuing the study of four-part harmony beyond the level of 12-300, to include the full chromatic vocabulary of tonal music.

Prerequisite: 12-300

Lecture: 5

Transferability:

UBC 1½ units Music Education 201 for majors in music education

12-405 Ensemble — Band**1 sem. hr**

Problems in performance of ensemble music, with emphasis on rehearsal techniques and conductor-performer relationship.

Prerequisite: 12-305

Corequisite: For music majors 12-450; audition required from non-majors

Transferability:

UBC ½ unit Large Ensemble

12-406 College Chorus**1 sem. hr.**

Members study and perform works from all periods requiring chorus of large numbers. Familiarisation with conductor-performer relationship. Exposure to problems in performance of choral music, with emphasis on rehearsal techniques. This is lab for 12-451.

Prerequisite: 12-306

Corequisite: For music majors 12-451; audition required from non-majors

Laboratory: 3x2

Transferability:

UBC with 12-306 Large Ensemble second year B. Music (general)

12-410 Theory of Western Music: 1750-1910 A.D.**3 sem. hrs.**

Compositional techniques in Western music from Bach to Schoenberg, especially counterpoint, harmony, and form. Emphasis on score analysis, aural comprehension, and elementary composition in small forms. Obligatory for students in B. Mus. (general) university transfer programme.

Prerequisite: 12-310

Lecture: 5

Transferability:

UBC with 12-310 Music 200

12-420 History of Western Music: 1750-1910 A.D.**3 sem. hrs.**

Developments in style and form of Western music from Haydn to Schoenberg. Obligatory for students in B. Mus. (general) university-transfer programme; optional for students majoring in music education; permission of instructor required for others wishing to take course as elective.

Prerequisite: Nil

Lecture: 3

Transferability:

UBC with 12-320 Music 320

12-440 Piano (Secondary)**1 sem. hr.**

Piano, repertoire, technical requirements, aural training, sight reading, accompaniment, improvisation, and keyboard harmony. Available only to majors in B. Mus. (general) programme.

Prerequisite: 12-340

Tutorial: ½ hr. Student-directed Learning: 5

Transferability:

UBC with 12-340 Music 244 (Piano)

12-450 Music Concentration (Instrumental)**2 sem. hrs.**

Tone production, instrumental techniques, transposition, repertoire, solo performance, ensemble playing, and style development. Training to standard of Royal Conservatory of Music, Toronto, grade 8 examination in one of following instruments: oboe, flute, clarinet, bassoon, saxophone, trumpet, trombone, french horn, baritone, euphonium, tuba, percussion, violin, viola, cello, and string bass. Open only to music majors in B. Mus. (general) programme.

Prerequisite: 12-350

Corequisite: 12-405

Tutorial: 1

Transferability:

UBC with 12-350 Music 245 (Instrumental)

12-451 Music Concentration (Vocal)**2 sem. hrs.**

Vocal production, tone color, English, Italian, French, Latin, and German diction; music (vocal) from Baroque, Classical, Romantic, and contemporary periods, and an understanding of stylistic and interpretative characteristics of each. Students acquire knowledge of library research methods pertaining to vocal solo and choral groups.

Prerequisite: 12-351

Corequisite: 12-406

Tutorial: ½ hr. Seminar: 1

Transferability:

UBC to be determined

PHILOSOPHY

Although any of Philosophy 100 courses may be taken without a prerequisite, 27-100 provides a valuable grounding for all other courses. Transferability to UBC as follows:

Any two of 27-100, 110, 120, 200, 210, 290 equivalent of UBC Philosophy 100 (3). Any four of above, UBC Philosophy 100 (3) and 200 (3).

27-100 Introduction to Philosophy**3 sem. hrs.**

An introduction to questions raised by philosophical thinking, past and present, and to the humans who raised them. Emphasis on an introductory understanding of philosophy with special attention to "What is real?" and "How do we know what we claim to know?" Seminars, discussion periods, and film presentations augment studies in selected philosophical readings.

Prerequisite: Nil

Lecture: 2 Seminar: 2

Transferability:

UBC (see above)

SFU Philosophy 100 (3)

27-110 Morality in Turmoil**3 sem. hrs.**

A search for meaning and justification of moral judgments such as "right", "wrong", "good", "evil", with special attention to contemporary moral concerns. Includes relevant readings in classical and modern texts, discussion groups, field work, and research of student's choice.

Prerequisite: Nil

Lecture: 2 Seminar: 2

Transferability:

UBC (see above)

SFU Philosophy 103 (3)

27-120 Fact, Faith, and Fiction**3 sem. hrs.**

An introduction to the philosophy of religion which investigates the sociological fact of religion; concepts of faith; relation of religious faith to reason, ethics, and problems of evil and free will; fictions in theism, agnosticism, and atheism. Owing to dominant position of Judaic-Christian religion in Western civilisation, special attention given to this area.

Prerequisite: Nil

Lecture: 2 Seminar: 2

Transferability:

UBC (see above)

SFU 3 unassigned credits in Philosophy

27-130 Religious Thought**3 sem. hrs.**

An introduction to the development of religions, their common themes, and their influence on human thought; also their philosophical, anthropological, and psychological implications.

Prerequisite: Nil

Lecture: 2 Seminar: 2

Transferability:

UBC to be determined

SFU 3 unassigned credits in Arts

27-131 Religions of Mankind**3 sem. hrs.**

A comparative examination of major religions in the context of human thought and culture: the role of myth, legend, miracles, faith, beliefs, and revelation as found in the major religions.

Prerequisite: Nil

Lecture: 2 Seminar: 2

Transferability:

UBC to be determined

SFU 3 unassigned credits in Arts

27-150 Critical Thinking**3 sem. hrs.**

A study of logical uses of language and basic forms and rules of logical reasoning. Includes deduction and induction, fallacies, definition, traditional deductive logic, validity and invalidity, elements of symbolic logic. Emphasis on acquiring a working knowledge of topics covered.

Prerequisite: Nil

Lecture: 2 Seminar: 2

Transferability:

UBC to be determined

SFU Philosophy 102 (3)

27-200 Studies in Philosophy**3 sem. hrs.**

A continuation of Philosophy 27-100 with emphasis on freedom and determinism, moral philosophy, and the philosophy of politics. Seminars, discussion periods, and film presentations augment studies in selected philosophical readings.

Prerequisite: 27-100 or equivalent

Lecture: 2 Seminar: 2

Transferability:

UBC (see above)

SFU 3 unassigned credits in Philosophy

27-210 Ethics and Moral Judgment**3 sem. hrs.**

Continuing the search for meaning and justification of moral judgments initiated in 27-110. Includes relevant readings in classical and modern texts, discussion groups, field work, and research of student's choice. Special emphasis is given to relating content of the course.

Prerequisite: 27-100 or 27-110

Lecture: 2 Seminar: 2

Transferability:

UBC (see above)

SFU 3 unassigned credits in Philosophy

27-290 Political Man and Social Man**3 sem. hrs.**

A study of sources and limits of political authority, relationship between the individual and society, moral dimensions of social control, impact of behavioral sciences on social and political philosophy. Readings include relevant texts in classical and modern philosophy and in social sciences.

Prerequisite: 27-100 or 27-110

Lecture: 2 Seminar: 2

Transferability:

UBC (see above)

SFU 3 unassigned credits in Philosophy

PHYSICAL EDUCATION**64-100 Fundamentals of Recreation for Child-Care Workers****3 sem. hrs.**

This course required in Residential Child-Care programme, but may be of general interest. It differentiates between recreation and physical education. Student gains skills in area of hobbycrafts. Recreational skills taught are appropriate for use with age groups 6 to 18.

Prerequisite: Nil

Lecture: 1 Laboratory: 3

No transfer credit

64-110 Track and Field**2 sem. hrs.**

Theoretical and practical knowledge of six track and field events. Not intended to produce excellent athletes, but rather teachers who can help children and the community to make good use of leisure time through participation in athletic diversions. High jump, discus, shot put, sprinting, and middle distance running are dealt with under the headings: Kinisiological principles, teaching methods, and techniques appropriate to school and community programmes. Offered as elective and for transfer.

Prerequisite: Nil

Lecture: 1 Laboratory: 3

Transferability:

UBC P.E. 250

64-111 Badminton**2 sem. hrs.**

Theoretical and practical knowledge of badminton. Not intended to produce expert players, but rather teachers who can help children and the community to make good use of leisure time through participation in athletic diversions. Emphasis on skills, rules, tactics, teaching methods, and techniques appropriate to school and community programmes. Offered as elective and for transfer.

Prerequisite: Nil

Lecture: 1 Laboratory: 3

Transferability:

UBC P.E. 220

64-112 Volleyball**2 sem. hrs.**

Theoretical and practical knowledge of volleyball. Not intended to produce expert players, but rather teachers who can help children and the community to make good use of leisure time through participation in athletic diversions. Emphasis on skills, rules, tactics, teaching methods, and techniques appropriate to school and community programmes. Offered as elective and for transfer.

Prerequisite: Nil

Lecture: 1 Laboratory: 3

Transferability:

UBC P.E. 219

64-113 Swimming**2 sem. hrs.**

Theoretical and practical knowledge of water-safety skills, strokes, entries, survival and teaching techniques appropriate to school and community programmes. Offered as elective and for transfer.

Prerequisites: Ability to swim 25 yards

Lecture: 1 Laboratory: 3

Transferability:

UBC P.E. 230

64-114 Basketball**2 sem. hrs.**

Theoretical and practical knowledge of basketball. Not intended to produce expert basketball players, but rather teachers who can assist children and the community to make good use of leisure time through participation in athletic diversions. Emphasis on skills, offensive and defensive tactics, teaching methods, and techniques. Offered as elective and for transfer.

Prerequisite: Nil

Lecture: 1 Laboratory: 3

Transferability:

UBC P.E. 210

64-115 Recreation Activities**2 sem. hrs.**

Prepares student to conceive, organise, and operate indoor recreation programmes involving games, contests, and relays — including individual, pair, team, and group activities. Teaching techniques and programme planning emphasised. Offered as elective and for transfer.

Prerequisite: Nil

Lecture: 1 Laboratory: 3

Transferability:

UBC P.E. 218

64-116 Tennis**2 sem. hrs.**

This course, ordinarily given in summer, provides theoretical and practical knowledge of tennis. Not intended to produce expert players, but rather teachers who can assist children and the community to make good use of leisure time through participation in athletic diversions. Emphasis on skills, rules, tactics, teaching methods, and techniques. Offered as elective and for transfer.

Prerequisite: Nil

Lecture: 1 Laboratory: 3

Transferability:

UBC P.E. 226

64-117 Conditioning Programmes**2 sem. hrs.**

Theoretical and practical knowledge of conditioning programmes related to specific needs. Not intended to produce top class athletes, but rather instructors to serve the community. Emphasis on conditioning exercises, fitness assessment, adaption of exercise programmes, teaching methods, and techniques. Offered as elective and for transfer.

Prerequisite: Nil

Lecture: 1 Gymnasium: 3

Transferability:

UBC P.E. 203

64-118 Contemporary Dance**2 sem. hrs.**

Theoretical and practical knowledge of contemporary dance as taught from elementary to college level. Not intended to produce experts, but rather instructors to serve the community. Emphasis on rhythm and movement skills, dance notation, percussion accompaniment, teaching methods, and techniques. Offered as elective and for transfer.

Prerequisite: Nil

Lecture: 1 Laboratory: 3

Transferability:

UBC P.E. 241

64-119 Gymnastics (Men)**2 sem. hrs.**

Theoretical and practical knowledge of tumbling, free standing and apparatus gymnastics, and teaching methods. Not intended to produce expert gymnasts, but rather teachers who can assist children and the community to make good use of leisure time through participation in physical activity. Offered as elective and for transfer.

Prerequisite: Nil

Lecture: 1 Laboratory: 3

Transferability:

UBC P.E. 202

64-120 Gymnastics (Women)**2 sem. hrs.**

Theoretical and practical knowledge of tumbling, floor exercises, and apparatus rhythmical gymnastics, teaching methods, and techniques. Not intended to produce expert gymnasts, but rather teachers who can assist children and the community to make good use of leisure time through participation in physical activity. Offered as elective and for transfer.

Prerequisite: Nil

Lecture: 1 Laboratory: 3

Transferability:

UBC P.E. 201

64-121 Field Hockey**2 sem. hrs.**

Theoretical and practical knowledge of field hockey. Not intended to produce expert players, but rather teachers of field hockey who will be able to utilise the knowledge acquired within the community and schools. Emphasis on skills, rules, offensive and defensive tactics, teaching methods, and techniques. Offered as elective and for transfer.

Prerequisite: Nil

Lecture: 1 Laboratory: 3

Transferability:

UBC to be determined

64-122 Soccer**2 sem. hrs.**

Theoretical and practical knowledge of soccer. Not intended to produce expert players, but rather teachers who will be able to utilise the knowledge acquired within the community and schools. Emphasis on skills, rules, offensive and defensive tactics, teaching methods, and techniques. Offered as elective and for transfer.

Prerequisite: Nil

Lecture: 1 Laboratory: 3

Transferability:

UBC to be determined

64-130 Swimming**1 sem. hr.**

Water safety, strokes, skills, entries, survival techniques; and recreational and competitive activities, including racing, diving, water polo, and other games.

Prerequisite: Nil

Physical participation: 3

No transfer credit

64-131 Archery**1 sem. hr.**

Selection and care of archery equipment, safety measures, shooting techniques, skills, target shooting, competitive events, novelty tournaments, archery golf.

Prerequisite: Nil

Physical participation: 3

No transfer credit

64-132 Curling**1 sem. hr.**

Dress, equipment, delivery, take-out technique, sweeping, rules, terminology, etiquette, skipping strategy.

Prerequisite: Nil

Physical participation: 3

No transfer credit

64-133 Conditioning**1 sem. hr.**

Individual appraisal of elements of fitness, individual and group exercise programming, calisthenic and isometric exercise, weight and circuit training, jogging, individual and group games and contests. Students learn to assess personal physical condition, and the means to attain and maintain achieved levels of strength, endurance, trimness, etc. with minimum drudgery.

Prerequisite: Nil

Physical participation: 3

No transfer credit

64-134 Badminton**1 sem. hr.**

Basic strokes, rules, and strategies for singles and doubles play; terminology, tournament competition.

Prerequisite: Nil

Physical participation: 3

No transfer credit

64-135 Squash and Handball**1 sem. hr.**

Basic strokes, rules and strategies for singles and doubles play; terminology, tournament competition.

Prerequisite: Nil

Physical participation: 3

No transfer credit

64-136 Golf**1 sem. hr.**

Selection and care of equipment, safety, etiquette, golf swing, techniques, and skills of using various clubs; terminology, course practice, scoring, competition.

Prerequisite: Nil

Physical participation: 3

No transfer credit

64-200 Fundamentals of Recreation for Child-Care Workers**3 sem. hrs.**

Course required in Residential Child-Care programme, but may be of general interest. It differentiates between recreation and physical education. Students gain skills in areas of active and passive games and camping. Recreational skills taught are appropriate for use with age groups 6 to 18.

Prerequisite: 64-100

Lecture: 1 Laboratory: 3

No transfer credit

64-210 Track and Field**2 sem. hrs.**

Theoretical and practical knowledge of seven track and field events. Not intended to produce champions, but rather instructors to teach in schools and serve the community. Specific studies made of printing, hurdling, middle distance, relays, jumping, pole vaulting, throwing. Throwing methods appropriate to school and community programmes stressed. Offered as elective and for transfer.

Prerequisite: 64-110, or permission of instructor

Lecture: 1 Laboratory: 3

Transferability:

UBC P.E. 251

64-350 Foundations of Physical Education**3 sem. hrs.**

An in-depth study of physical education as a profession, as well as principles, nature, scope and objectives of physical education and their interpretations. Course required in Bachelor of Physical Education programme, and in Bachelor of Education programmes with a physical education major.

Prerequisite: Nil

Lecture: 3 Seminar: 1

Transferability:

UBC P.E. 260

64-360 Health Education**3 sem. hrs.**

An introduction to anatomy and physiology, involving study of body systems, growth and development, and personal hygiene. Offered as elective and for transfer.

Prerequisite: Nil

Lecture: 4

Transferability:

UBC to be determined

PHYSICS**45-100 Introductory General Physics****3 sem. hrs.**

A non-calculus physics course for students with little or no background in physics, covering mechanics, sound, heat.

Prerequisite: B.C. Math 11 or equivalent knowledge of trigonometry and algebra, or permission of instructor

Lecture: 3 Laboratory: 3 Tutorial: 1

Transferability:

UBC with 45-200 Physics 105

SFU with 45-200 Physics 101

45-105 Solar System Astronomy**3 sem. hrs.**

A survey of the solar system for non-science majors, involving study of physical laws necessary for observation and understanding of solar system. Includes origin of solar system, planets and their satellites, telescopes and optics, light and the electromagnetic spectrum, comets, meteors, and asteroids.

Prerequisite: Nil

Lecture: 3 Laboratory: 2

Transferability:

UBC 1½ units unassigned credit in Science

SFU 3 unassigned credits in Science

45-110 Mechanics and Sound**3 sem. hrs.**

Topics include vectors, particle kinematics and dynamics; work, energy and power; momentum; rotational motion; statics; dynamical systems, elasticity; periodic motion; wave motion and sound.

Prerequisite: B.C. Math 12 or equivalent. A course in calculus must precede or be taken concurrently.

Lecture: 3 Laboratory: 3

Transferability:

UBC with 45-210 Physics 110

SFU Physics 201 and 1 unassigned credit in Physics

45-200 Introductory General Physics**3 sem. hrs.**

A non-calculus physics course for non-Science students covering heat, light, electricity, magnetism, atomic physics, and relativity.

Prerequisite: 45-100, or permission of instructor

Lecture: 3 Laboratory: 3 Tutorial: 1

Transferability:

UBC with 45-100 Physics 105

SFU with 45-100 Physics 102

45-205 Stellar Astronomy**3 sem. hrs.**

A survey of stars and stellar systems (clusters, galaxies), the evolution of stars and cosmology, for non-Science majors.

Prerequisite: 45-105

Lecture: 3 Laboratory: 2

Transferability:

UBC 1½ units unassigned credit in Science

SFU 3 unassigned credits in Science

45-210 Heat, Light, Electricity, and Magnetism**3 sem. hrs.**

Temperature and thermal expansion; heat and heat transfer; kinetic theory; thermodynamics; wave nature of light; reflection and refraction; diffraction; polarisation; electro-statics, electro-static fields; electric currents; magnetic forces and fields; electromagnetic induction.

Prerequisite: 45-110, or permission of instructor

Lecture: 3 Laboratory: 3

Transferability:

UBC with 45-110 Physics 110

SFU with 45-110 and 45-210 Physics 201, 202 and 204

45-320 Advanced Mechanics**3 sem. hrs.**

Classical mechanics using advanced mathematical techniques; inertial and non-inertial frames of reference; special relativity; thermodynamics.

Prerequisite: 45-210, or permission of instructor

Math 44-320 and Physics 45-321 must be taken concurrently

Lecture: 3x1

Transferability:

UBC with 45-420 Physics 200

SFU Physics 203

45-321 Laboratory in Contemporary Physics 1 sem. hr.

Experiments in electric instrumentation and the dynamics of charged particles.

Prerequisite: 45-320 must be taken concurrently

Laboratory: 1x3

Transferability:

UBC with 45-421 Physics 219

SFU with 45-331 Physics 234 and 235

45-420 Advanced Electricity 3 sem. hrs.

Electromagnetic induction; electromagnetic waves; Maxwell's equations; A.C. theory and circuits; introduction to electronics.

Prerequisite: 45-210, or permission of instructor

Math 44-420 and Physics 45-421 should be taken concurrently

Lecture: 3x1

Transferability:

UBC with 45-320 Physics 200

SFU Physics 205

45-421 Laboratory in Electric Circuits 1 sem. hr.

Experiments in alternating current circuits; a continuation of the Berkeley Physics Laboratory followed in Physics 45-321.

Prerequisite: 45-321

Physics 45-420 must be taken concurrently

Transferability:

UBC with 45-321 Physics 219

SFU Physics 234 and 235

POLITICAL SCIENCE**22-105 The Canadian Legal System 3 sem. hrs.**

Development of Canadian legal systems. Relationship of civil and criminal law. Legislative bodies and courts. Court officers. Field experiences.

Prerequisite: Nil

Lecture 4 and field experience

Transferability:

UBC No transfer credit

SFU 3 unassigned credits in Arts

22-110 Ideology and Politics 3 sem. hrs.

An examination of major ideologies including conservatism, liberalism, socialism, and forms of totalitarianism.

Prerequisite: Nil

Lecture: 2 Seminar: 2

Transferability:

UBC Political Science 202

SFU P.S.A. 211 (3)

22-120 Canadian Government 3 sem. hrs.

A study of the problems of federal, provincial, and municipal government with emphasis on Canada's federal nature and its future as a nation.

Prerequisite: Nil

Seminar: 2x2

Transferability:

UBC Political Science 200

SFU P.S.A. 244 (3)

22-125 Introduction to Political Science 3 sem. hrs.

Basic concepts of political science, political processes, parties, and interest groups.

Prerequisite: Nil

Lecture: 2 Tutorial: 2

Transferability:

UBC 1½ units unassigned credit in Political Science

SFU P.S.A. 222 (3)

22-130 Soviet Government: Theory and Practice 3 sem. hrs.

Presents various descriptions and analyses of the Soviet government in theory and practice. An introduction to the study of Soviet government and politics, followed by: Marxism and Russian Bolsheviks; revolution of 1917 and establishment of Soviet regime; constitutional evolution of Soviet system; Communist Party of Soviet Union; Soviet government and administration; Soviet federalism and nationality problem; Soviet economy and society; Soviet foreign policy; and international communism.

Prerequisite: Nil

Lecture: 2 Seminar: 2

Transferability:

UBC 1½ units unassigned credit in Political Science

SFU P.S.A. 200 level (3)

22-140 Chinese Government and Politics 3 sem. hrs.

Explores a number of topics relating to the origin and development of the Chinese communist revolutionary movement, ideology and organization in China, and China's international relations since 1949.

Prerequisite: Nil

Lecture: 2 Tutorial: 2

Transferability:

UBC 1½ units unassigned credit in Political Science

SFU 3 unassigned credits in Art

22-150 Introduction to International Relations 3 sem. hrs.

A critical examination of the nature of the international system of states. Analyses political, military, cultural, psychological, economic, and ideological factors affecting the behavior of states in their mutual relations, and the impact of international organizations and technological developments on world politics.

Prerequisite: Nil

Lecture: 2x1 Tutorial: 2x1

Transferability:

UBC 1½ units unassigned credit in Political Science

SFU 3 unassigned credits in P.S.A. second-year level

22-155 Contemporary International Conflict: An Interdisciplinary Approach 3 sem. hrs.

An interdisciplinary approach to causes of international conflict. Some contributions derived from research in disciplines of history, political science, economics, sociology, and psychology are examined. An integration of these methods of analysis attempted.

Prerequisite: Nil

Lecture: 1x2 Seminar: 1x2

Transferability:

UBC 1½ units unassigned credit in Political Science

SFU History 298 (3)

PSYCHOLOGY**28-100 Foundations of Contemporary Psychology 3 sem. hrs.**

An introduction to selected major areas in the scientific treatment of behavior: their current status and historical antecedents. This one-semester course develops an integrated view of many areas of psychology, including: psychology as a natural and social science, treatment of data, biological and developmental foundations of psychology, motivation, sensation, emotion, and social processes.

Prerequisite: Nil

Lecture: 2 Seminar: 2

Transferability:

UBC with 28-200 Psychology 100

SFU Psychology 101

28-110 Contemporary Social Issues 3 sem. hrs.

Focuses contemporary knowledge of psychology and relevant behavioral sciences on such current social concerns as racism, violence, aggression, and technological change. Since current demands change, issues examined are flexible in each semester. Classic and current works in an area, as well as relevant research methods and findings, critically examined.

Prerequisite: Permission of instructor

Seminar: 3

Transferability:

UBC 1½ units unassigned credit in Psychology

SFU Social Issues 106

28-200 Foundations of Contemporary Psychology 3 sem. hrs.

Focuses on basic psychological processes of perception, learning, cognition. Personality, and abnormal and social behavior, examined in relation to basic processes already studied. Relates data of psychology to applied areas such as psychological testing, group processes, personal adjustment, child-rearing practices, personnel and administrative practices, and modification of disordered behaviors.

Prerequisite: 28-100

Lecture: 2 Seminar: 2

Transferability:

UBC with 28-100 Psychology 100

SFU 3 unassigned credits in Psychology

28-300 Experimental Psychology 3 sem. hrs.

First of a two-semester experimental sequence which considers initially the philosophy of science, especially as it relates to empirical approaches to psychology. Concentrates on analysis of results of experiments to enable student to analyse results of his own experiments and to intelligently criticise analyses of other investigators.

Prerequisite: 28-200

Lecture: 2 Laboratory: 3

Transferability:

UBC with 28-400 Psychology 200

SFU Psychology 210

28-320 Developmental Psychology — Child Behavior and Development 3 sem. hrs.

An introduction to the process of development, focusing on: (1) major principles of development, (2) descriptive changes in child growth and behavior, (3) contemporary research and theory on origins and changes in areas such as perception, learning, personality, and social behavior of children.

Prerequisite: 28-200

Lecture: 2 Laboratory: 2

Transferability:

UBC 1½ units unassigned credit in Psychology; enrollment precludes student from enrolling in Psychology 301 for credit

SFU 3 unassigned credits in Psychology; enrollment precludes student from enrolling in Psychology 351 for credit

28-321 Adolescent Psychology 3 sem. hrs.

A directed investigation in selected areas of developmental psychology. Problem areas presented and students encouraged to do in-depth investigations, using contemporary theory and research methodology. Encourages learning through personal experience such as role playing, field work, discussion groups.

Prerequisite: 28-200

Seminar: 2x2 Field experience: 1

Transferability:

UBC 1½ units unassigned credit in Psychology

SFU 3 unassigned credits in Psychology

28-322 Developmental Psychology: Aging**3 sem. hrs.**

A detailed examination of the aging process in the context of basic content areas of psychology-motivation, sensation, perception, learning. Considers social implications of aging and seeks solutions to problems. Special treatment procedures in geriatrics examined, also psychological effects of the concept of death.

Prerequisite: 28-200

Lecture: 2x2

Transferability:

UBC 1½ units unassigned credit in Psychology

SFU 3 unassigned credits in Psychology

28-330 An Introduction to Social Psychology**3 sem. hrs.**

A study of the individual's behavior within his social context, focusing on problems and methods of social psychology at three levels: intrapersonal, interpersonal, group behavior. Topics include interpersonal attraction and perception, social learning and social influence, social roles and status, and group processes.

Prerequisite: 28-200

Lecture: 2 Seminar: 1x2

Transferability:

UBC 1½ units unassigned credit in Psychology; enrollment precludes taking Psychology 308 for credit

SFU 3 unassigned credits in Psychology

28-340 Behavior in Organisations**3 sem. hrs.**

An investigation of theories and techniques used by psychologists and other behavioral scientists in dealing with problems of selection, management, and development of personnel in business, industry, and government. The nature of the personnel function and various organisational models considered and evaluated. Includes management identification, selection, development; counselling; interviewing; psychometric evaluation; labor relations; communication networks; motivation and incentives.

Prerequisite: 28-200

Lecture: 2 Seminar: 1 Problem-Solving: 1

Transferability:

UBC 1½ units unassigned credit in Psychology; enrollment precludes student from enrolling in Psychology 415 for credit

SFU 3 unassigned credits in Psychology

28-350 Conceptual Frameworks of Abnormal Behavior**3 sem. hrs.**

A theoretical and experimental consideration of personality dynamics and behavior as they relate to a normal-abnormal continuum. A perspective on the concept of abnormality as currently used is sought by considering:

- a) Effects on major psychological processes;
- b) Conceptual frameworks from personality theory;
- c) Cornerstone symptoms related to personal adjustment.

Prerequisite: 28-200

Lecture: 2 Seminar: 2

Transferability:

UBC 1½ unassigned credit in Psychology; enrollment precludes student from enrolling in Psychology 400 for credit

SFU 3 unassigned credits in Psychology

28-380 Student Proctoring in Psychology**2 sem. hrs.**

Designed to give student experience in administration and analysis of objective questionnaires in field of psychology. Questionnaires handled in an interview situation. Student analyzes and evaluates responses to questionnaire and engages in self and peer evaluation of his duties. Through this process, he gains a deeper understanding of general psychology principles.

Prerequisite: 28-200

Tutorial: 1 Proctoring: 5

Transferability:

UBC No transfer credit

SFU No transfer credit

28-400 Experimental Psychology**3 sem. hrs.**

The second of a two-semester course on the main content areas of general experimental psychology — physiological psychology, sensation, perception, learning, motivation, social behavior.

Prerequisite: 28-300

Lecture: 2 Laboratory: 3

Transferability:

UBC with 28-300 Psychology 200 (3 units)

SFU Psychology 201 (3 credits)

28-430 Social Psychology: Theory and Research**3 sem. hrs.**

A sequel to Introduction to Social Psychology, this course consists of directed investigation in one area of social psychology, enabling student to learn more fully the theoretical explanations of that area. Contemporary social psychological research methods utilised in projects investigating student's area of interest.

Prerequisite: 28-330

Seminar: 1x2 Laboratory: 1x2

Transferability:

UBC 1½ units unassigned credit in Psychology; enrollment precludes student from enrolling in Psychology 308 for credit

SFU 3 unassigned credits in Psychology

28-450 Theories and Principles of Behavior Modification**3 sem. hrs.**

A consideration of neurotic and severely disturbed adult behavior, with emphasis on modes of intervention and modification. Includes traditional classification models, experimental data in psychopathology, and the full range of therapeutic techniques and environments. Emphasis on potential usefulness of the material for non-psychological personnel and sub-professional psychology students in relating to behaviorally-disordered samples of population.

Prerequisite: 28-350

Lecture: 2 Seminar: 2

Transferability:

UBC 1½ units unassigned credit for Psychology; enrollment precludes student from enrolling in Psychology 401 for credit

SFU 3 unassigned credits in Psychology

NOTE:

- 1) Maximum advance credit permitted in Psychology is nine units of credit. Additional credits, however, may be taken as general credit toward Arts degree.
- 2) Any **two** of 28-320, 28-321, 28-322, 28-330, 28-350, 28-430, 28-450 may be transferred to UBC as assigned credit in Psychology equivalent of Psychology 206 (3 units).

READING SKILLS DEVELOPMENT**93-100 Reading and Study Skills****1 sem. hr.**

A seven-week mini-course, emphasising increase in reading speed and comprehension; previewing, skimming and scanning; study habits and skills; critical reading skills; flexibility of reading rate; reading skills in academic, business, technical, and special-interest areas. Particular attention to time and energy-saving study methods, concentration, remembering, writing essays and term papers, preparing for and writing examinations (including essay type).

Prerequisite: Nil

Laboratory: 2 Student-directed Learning: 1

No transfer credit

93-110 Study Skills for College**1 sem. hr.**

A six-week mini-course in which useful study skills are demonstrated: listening skills, exam preparation, taking lecture and text notes, time utilisation, concentrating and remembering, information analysis, general approaches to study, study techniques for specific subjects, writing themes and course papers.

Prerequisite: Nil

Lecture: 2

No transfer credit

93-200 Advanced Reading and Study Skills**1 em. hr.**

An opportunity to further develop skills introduced in 93-100.

Prerequisite: 93-100

Laboratory: 2 Student-directed Learning: 1

No transfer credit

93-300 Reading and Study Skills**1 sem. hr.**

An opportunity to develop and improve critical reading (study reading) skills. Through discussion and practice, skills are examined generally and then with reference to specific content areas.

Prerequisite: 93-200

Lecture: 1x2

No transfer credit

93-400 Reading and Study Skills**1 sem. hr.**

An opportunity to further develop reading rate and comprehension. An individual programme based on student's present reading level (as attained in previous reading courses).

Prerequisite: 93-300

Tutorial: 2

No transfer credit

Russian

See Modern Languages

SOCIAL SERVICES**69-100 Social Work: Art of Human Relations****3 sem. hrs.**

For those who want to be more effective in relationships with others. Normal physical, emotional, and mental growth taught from a social work viewpoint. Emphasis on individual worth, individual ability to change, and a variety of techniques.

Prerequisite: Nil

Tutorial: 4

No transfer credit

69-110 Residential Child-Care Methods**6 sem. hrs.**

For students planning employment in institutions which provide residential child-care services. A study of normal physical, emotional, and mental growth of children. Emphasis on practical skills needed in residential setting. Skills taught are put into practice during weekly placement in a residential child-care setting.

Prerequisite: Permission of instructor

Lecture: 2 Seminar: 2 Field experience: 2-3 weeks' internship

No transfer credit

69-121 Administration and Organisation**3 sem. hrs.**

For students planning employment in residential settings, but may be taken on a general interest basis. Covers administrative, legal, and legislative framework for child welfare services in general and residential child-care institutions; also child-care worker's role in the overall structure, and the concept of working with groups.

Prerequisite: Nil
Lecture: 2 Seminar: 2
No transfer credit

69-130 First Aid**1 sem. hr.**

Introduction to first aid to the injured. Diagnosis, treatment and disposal of injuries and medical emergencies. Students qualify for St. John Ambulance First Aid Certificate.

Prerequisite: Nil
Lecture: 1 Laboratory: 1 Review: ¼
No transfer credit

69-140 Theory and Practice in Becoming a College Counsellor Aide**2 sem. hrs.**

A one-semester course for students interested in the "helping" professions: psychology, social work, counselling, teaching, etc. Emphasis on development of communicating skills in helping others and decision-making. Students should achieve status of college counsellor aide at conclusion of course. Field work required. Interest in others and willingness to work with them essential for enrollment.

Prerequisite: Nil
Lecture: 1 Field experience: 2
No transfer credit

69-150 The Vocational Rehabilitation Process**3 sem. hrs.**

Provides workers in field of rehabilitation with comprehensive understanding of (1) the philosophy, history, and principles of rehabilitation; (2) federal and provincial legislation pertaining to rehabilitation process; (3) scope of public and volunteer resources; (4) an overview of various professions involved in rehabilitation process. Emphasis on co-ordinating function of vocational rehabilitation counsellor.

Prerequisite: Enrollment in Vocational Rehabilitation Programme
Lecture: 2 Seminar: 2
No transfer credit

69-151 Medical Aspects of Rehabilitation**3 sem. hrs.**

A basic understanding of medical aspects of various disabilities; their physical, psychological, and social implications in the process of rehabilitation, and their relation to vocational rehabilitation counselling.

Prerequisite: Enrollment in Vocational Rehabilitation Programme
Lecture: 2 Seminar: 2
No transfer credit

69-152 Vocational Rehabilitation Counselling**3 sem. hrs.**

An understanding of the counselling process, with special emphasis on its application to particular responsibilities and challenges of vocational rehabilitation counselling.

Prerequisite: Enrollment in Vocational Rehabilitation Programme
Lecture: 2 Seminar: 2
No transfer credit

69-153 Community Resources and Vocational Rehabilitation**3 sem. hrs.**

Detailed information and analysis of various community services, formal and informal, public and voluntary, traditional and newly-established, which assist in assessment, treatment, and placement of rehabilitation clients. Special consideration to problems of communication and co-operation among resources.

Prerequisite: Enrollment in Vocational Rehabilitation Programme
Lecture: 2 Seminar: 2
No transfer credit

69-200 Emotional Awareness**3 sem. hrs.**

More effective relationships with others. Principles introduced in Social Services 69-100 expanded, integrated, and reinforced by examples. Emotional awareness of wants and needs of others cultivated by studying principles involved in case records.

Prerequisite: 69-100
Seminar: 4
No transfer credit

69-210 Residential Child-Care Techniques**6 sem. hrs.**

For students planning employment in institutions providing residential child-care services. Emphasis on role of child-care worker, his relationship to other staff, his role in helping children to develop healthy life patterns and to resolve specific problems. Application of skills developed in classroom takes place during weekly practicum placements.

Prerequisite: 69-110
Lecture: 2 Seminar: 2 Field experience: 2-3 weeks' internship
No transfer credit

69-300 Skills, Methods, and Techniques**3 sem. hrs.**

An exploration of the helping process, including study, diagnosis, and treatment. Methods of problem-solving and helping others worked out in seminar discussions and used as effective working tools in relationships.

Prerequisite: 69-200
Seminar: 2x2
No transfer credit

69-400 Problems of Abnormal Behavior**3 sem. hrs.**

Emphasises development of deeper understanding of abnormal behavior. Current methods of treatment and help used by professional social workers studied.

Prerequisite: 69-300
Seminar: 2x2
No transfer credit

SOCIOLOGY**23-125 Social Processes****3 sem. hrs.**

An investigation of social causes and consequences of stability and change as they affect class, status, and power relationships in contemporary societies.

Prerequisite: Nil
Lecture: 1x2 Seminar: 1x2
Transferability:
UBC with 23-135 Sociology 200, 250 or 260
SFU PSA 121 (3 credits)

23-135 Introduction to Sociology**3 sem. hrs.**

Examination of the development of sociological theory and its relevance to the present, both within confines of the discipline and in life. Main theories, concepts, and models of sociology presented.

Prerequisite: Nil
Lecture: 2 Seminar: 2
Transferability:
UBC with 23-125 Sociology 200, 250 or 260
SFU PSA 101

23-240 The Role of Women in Society**3 sem. hrs.**

A study of women in society with emphasis on the relationship between changes in their roles and changes in the social structure. Possible future trends analysed.

Prerequisite or corequisite: 100 level Sociology
Lecture: 2 Seminar: 1
Transferability:
UBC 1½ units unassigned credit in Sociology
SFU 3 unassigned credits in Arts

23-250 The Role of the Family in Society**3 sem. hrs.**

A discussion of theories concerning origins of the family as well as analysis of the family in different cultures. Particularly concerned with family life in Canada and influence of the social structure on the family.

Prerequisite: 100 level Sociology, or permission of instructor
Lecture: 2x1 Seminar: 2x1
Transferability:
UBC 1½ units unassigned credit in Sociology
SFU 3 unassigned credits in Arts

23-260 Sociological Inquiry 1**3 sem. hrs.**

An investigation of the empirical method employed by sociologists in collection and validation of data. Includes sampling procedures, quantitative and qualitative analysis, critical analysis of participant and non-participant observations. Model and paradigm construction introduced.

Prerequisite: 100 level Sociology, or permission of instructor
Seminar: 2 Tutorial: 2
Transferability:
UBC 1½ units unassigned credit in Sociology
SFU PSA 231

23-290 Urbanisation and Industrialisation**3 sem. hrs.**

An examination of variables involved in the phenomena of urbanisation, urban organisation, and industrial development. The viewpoint is cross-disciplinary in that social, cultural, and economic variables are brought together in historical context.

Prerequisite: 100 level Sociology, or permission of instructor
Lecture: 2 Seminar: 2
Transferability:
UBC 1½ units unassigned credit in Sociology
SFU P.S.A. 221

23-360 Sociological Inquiry 2**3 sem. hrs.**

In-depth analysis of sociological methods, centering on quantitative analysis including computer application of data, paradigm construction, and questionnaire construction. Practical applications required.

Prerequisite: 23-260
Tutorial: 2x2
Transferability:
UBC 1½ units unassigned credit in Sociology
SFU P.S.A. 232

SPEECH

94-100 Oral Composition

3 sem. hrs.

An examination of basic theories on oral communication, with emphasis on practice by speaking in class. Criteria of evaluation established for various types of oral presentations and used by students to evaluate themselves and one another.

Prerequisite: Nil

Lecture: 2x2

Transferability:

UBC No transfer credit

SFU No transfer credit

THEATRE

95-100 A Prism of Man and the Drama: Insights and Happenings

3 sem. hrs.

The dilemma of man and his complexity as revealed in representative plays. Private versus social conscience. Is tragedy an anachronism in the 70s? Forms of drama examined. A chance to be critical. Emphasis on perception and participation in seminar discussions and playreading, increasing awareness of theatre as a reflection of man as a cultural force. Acquaints student with major movements in modern drama.

Prerequisite: Nil

Lecture: 2 Seminar: 2

Transferability:

UBC 1½ units unassigned credit in Theatre with any one of 91-101 to 91-109, or 92-100, or 96-100, equivalent of English 100

SFU English 103 (see also list for English 100)

95-110 Acting and Creating

3 sem. hrs.

Getting into the play. Participation in scenes and dramatic exercises with emphasis on improvisation, speech, movement, interpretation. Helping one to relax and communicate. Students have a chance to participate in a major production with public performance.

Prerequisite: Permission of instructor

Laboratory: 3x2

Transferability:

UBC 1½ units unassigned credit in Theatre

95-111 Speech for the Stage

2 sem. hrs.

A practical workshop in speech techniques — voice projection, diction, breath control, expressiveness — to equip beginning actors with effective stage voices.

Prerequisite: Nil

Laboratory: 2x2

Transferability:

UBC 1½ units unassigned credit in Theatre

SFU No transfer credit

95-120 Developmental Drama Workshop

3 sem. hrs.

Use of drama such as improvisation games, creative movement, dance, music, film, various media, to help develop the whole person. Helping the individual to release his own creativity. Mastery and control of the physical self, discovery and control of emotion. Development of imagination, sensitivity, intellect. For actors or anyone wishing intense work in personal development.

Prerequisite: Nil

Laboratory: 6

Transferability:

SFU 3 credits Theatre General elective

95-140 Stage Design and Scenery Construction

3 sem. hrs.

A theatre production course in basic theories and practices of design, construction, and lighting. Involves students in building scenery for an actual production.

Prerequisite: Nil

Laboratory: 5

Transferability:

UBC 1½ units unassigned credit in Theatre

95-160 Stage Direction Workshop

3 sem. hrs.

A practical introduction to directing for the stage. Through working with scenes and other plays, students gain experience in solving problems concerning director's responsibility to playwright, actor, audience, and production personnel.

Prerequisite: Nil

Lecture: 1 Laboratory: 3 Tutorial: 1

Transferability:

UBC 1½ units unassigned credit in Theatre

95-170 Fencing Workshop

1 sem. hr.

Techniques of fencing as an aid to the actor in bodily development and stage movement. Emphasis on basic training in sword play and use of sabre on stage.

Prerequisite: Nil

Laboratory: 1x2

Transferability:

UBC 1½ units unassigned credit in Theatre

95-181 Creative Dance Workshop

2 sem. hrs.

Practical dance workshop in basic contemporary and jazz, using a technique developed from ballet. Emphasis on creative dance and dance as a form of expression. A broad, general look at the development of dance through practice and participation. Essential for the actor in making his body an expressive instrument; part of the actor's training in non-verbal communication.

Prerequisite: Nil

Laboratory: 2x2

Transferability:

UBC 1½ units unassigned credit in Theatre

95-182 Introductory Mime Workshop

3 sem. hrs.

A practical and theoretical introduction to mime, its techniques, improvisation, and styles; and to the history of mime (the art form) and mimes (the personalities).

Prerequisite: Nil

Laboratory: 5

Transferability:

UBC to be determined

95-200 A Panorama of World Drama

3 sem. hrs.

First of a two-semester sequence in the history of theatre, from the Greeks to the Restoration. A study of major and some minor playwrights. Emphasis on development of Western theatre through in-depth analysis of selected plays. Extensive reading of plays and dramatic literature required. Attention given to development of the stage.

Prerequisite: 95-100

Lecture: 2 Seminar: 2

Transferability:

UBC 1½ units unassigned credit in Theatre

95-210 The Actor and His Style

3 sem. hrs.

Advanced course in techniques of acting, reading, interpretation, and enactment of selected scenes from major works and short plays; various styles in acting. Techniques of playing comedy, participation in a major production. Emphasis on development of character and ensemble playing.

Prerequisite: 95-110

Laboratory: 2x3

Transferability:

UBC with 95-310 Theatre 461

95-220 Dramatic Theory: The Tragi-Comic Vision

3 sem. hrs.

Reading and discussion of four major works of dramatic criticism, plus selected plays, showing development of the tragi-comic vision in modern drama.

Prerequisite: 95-100

Lecture: 2 Seminar: 2

Transferability:

UBC with 95-100 Theatre 430

SFU No transfer credit

95-310 Advanced Acting

3 sem. hrs.

An advanced course in style of acting. Reading, interpretation, and enactment of selected scenes from major works and short plays. Emphasis on development of presentation style in acting.

Prerequisite: 95-210, or permission of instructor

Laboratory: 2x3

Transferability:

UBC with 95-210 Theatre 461

SFU No transfer credit

NOTES ON ENGLISH COURSES

A. Composition

Students in English courses are expected to demonstrate basic language skills — grammar, punctuation, and spelling. Deficiencies will be noted by instructors and must be corrected by the student. The Study Centre on each campus will have programmed, self-help material for the students' use. There will also be an English instructor present at specified periods to assist the student in the use of these materials, as well as with other composition problems. In addition, those enrolling in courses other than first-level composition courses should be able to write well-organized, unified and coherent expository prose. Weakness in composition skills will frequently affect students' marks, and pronounced weakness will generally make a mark of C or better unattainable.

B. Transfer Information

UBC: Students desiring transfer credit for first year English at UBC (English 100 — three units of UBC credit) will normally require

following courses: 91-101 to 91-114 inclusive, 92-100, 95-100, 96-100.

SFU: Consult counsellors for latest information.

C. Prerequisites for English Courses at Douglas College

1) There is no prerequisite for first level courses in English and Communications at Douglas College (but see statement on composition).

11) For second level courses in literature students are required to have first-year standing, defined as follows: First-year standing is achieved by the completion, with a grade point average of 2.0 or better in the two courses, of any two courses from list a, or one course from list a and one course from list b.

a	b
91-101 to 91-114 (incl.)	92-100
95-100	92-110
96-100	92-120
96-200	92-120

In addition to first-year standing, some courses have other prerequisites, which in all cases will be clearly stated following the calendar description.